

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										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE		ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW29							
MIXKO (IAF)		CITMO (NOPT) (TF) (FB) (RNP 1.00)		015.89 / 8.70		3000		CLIMB TO 3000 DIRECT ZUSAB AND ON TRACK 268.78 TO DAMEN AND HOLD.							
FINCH (IAF)		CITMO (NOPT) (TF) (FB) (RNP 1.00)		264.63 / 14.53		3000									
CITMO (IF/IAF)		CUCAK (TF) (FB) (RNP 1.00)		296.27 / 6.00		2200									
CUCAK (FAF)		RW29 (MAP) (TF) (FO) (RNP 0.30)		296.19 / 5.15											
RW29 (MAP)		773 MSL (CA)		296.19				ADDITIONAL FLIGHT DATA: HOLD W, RT, 099.00 INBOUND. CHART FAS OBST: 736 TOWER 380816N/0853921W CHART: 789 TREE 380836N/0853657W DISTANCE TO THLD FROM 293 HAT: 0.75 NM. CHART VDP AT 1.59 NM TO RW29* *LNAV ONLY. WAAS CHANNEL # 81801 REFERENCE PATH ID: W29A CHART CIRCLING ICON. LTP HAE: 113 M							
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 5W EPOCH YEAR: 2020					
2. HOLD SE CITMO, RT, 296.27 INBOUND, 3000 FT. IN LIEU OF PT (IAF)															
3. FAC: 296.19 FAF: CUCAK DIST FAF TO MAP: 5.15 THLD: 5.15															
4. MIN. ALT: CITMO 3000, CUCAK 2200															
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: 2200 GS ALT AT: CUCAK 2200 OM: _____ MM: _____ IM: _____															
7. GS ANGLE: 3.00 TCH: 55.0 20:1 IS CLEAR 34:1 IS NOT CLEAR															
8. MSA FROM: RW29 3600															
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	773	4000	293	773	4000	293	773	4000	293	773	4000	293			
LNAV/VNAV DA	943	5000	463	943	5000	463	943	5000	463	943	5000	463			
LNAV MDA	1040	4000	560	1040	4000	560	1040	5000	560	1040	6000	560			
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 -16C (4F) OR ABOVE 54C (130F). @ CAT D 900-3 CHART NOTE: CIRCLING RWY 11 NA AT NIGHT. CHART NOTE: RWY 29 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. (CONTINUED ON PAGE 2)															
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) RWY 29, ORIG-C						SUP: AMDT: ORIG-B DATED 10/15/2015			



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"/></div>		ZID, SDF APP CON, SDF ATCT, AMGR			
FLIGHT CHECKED BY					
NAME:		FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW FLIGHT TEAM (AJW-333) MEMO, MAY 30, 2017			DATE: 05/03/2006
		Digitally signed by ROBERT G HAMILTON			FIFO FIOG
DEVELOPED BY					
NAME:		PETER R. GUIMOND			DATE: 08/22/2017
		Digitally signed by PETER R GUIMOND Aug 22, 2017			FIFO AJV-5422
APPROVED BY					
NAME:		ROBERT G HAMILTON JULIE A. MORGAN			DATE:
		Digitally signed by MANAGER			FIFO AJV-5420
CHANGES: Jan 22, 2018					
<div>1. AMENDED PROCEDURE MAGVAR FROM 3W 1995 TO 5W 2020.</div> <div>2. INCREASED ALL MAGNETIC HEADINGS, WITH EXCEPTION OF MISSED APPROACH HOLDING, TWO DEGREES.</div> <div>3. AMENDED FINAL APPROACH COURSE FROM 294.19 TO 296.19.</div> <div>4. REPLACED ALL INSTANCES OF THE WORD VIA WITH THE WORD ON IN MISSED APPROACH AND IN THE PLANVIEW NOTES.</div> <div>5. AMENDED UNCOMPENSATED BARO-VNAV HIGH TEMPERATURE LIMIT FROM 48C (118F) TO 54C (130F).</div> <div>6. DELETED NOTE: IF LOCAL ALTIMETER SETTING NOT RECEIVED, USE BOWMAN FIELD ALTIMETER SETTING.</div> <div>7. DELETED NOTE: BARO-VNAV NA WHEN USING BOWMAN FIELD ALTIMETER SETTING.</div> <div>8. DELETED NOTE: NIGHT LANDING: RWY 11 NA.</div> <div>9. DELETED NOTE: HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NA.</div> <div>10. DELETED NOTE: FOR INOPERATIVE MALSR INCREASE LPV ALL CATS AND LNAV CATS A/B VISIBILITY TO RVR 5000.</div> <div>11. ADDED NOTE: CIRCLING RWY 11 NA AT NIGHT.</div> <div>12. ADDED NOTE: RWY 29 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NA.</div> <div>13. ADDED NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS AND LNAV CATS A/B VISIBILITY TO RVR 5000.</div> <div>14. AMENDED 34:1 IS CLEAR TO READ 34:1 IS NOT CLEAR ON LINE 7.</div> <div>(SEE FORM 8260-10)</div>					
REASONS:					
<div>1. MATCH PENDING MAGVAR ASSIGNMENT FOR KSDF IN AIRNAV.</div> <div>2. COMPUTED USING AMENDED MAGVAR VALUE. RETAINED PUBLISHED HOLDING COURSE (099 INBOUND) AT DAMEN TO REMAIN ALIGNED ON V512.</div> <div>3. COMPUTED USING AMENDED MAGVAR VALUE.</div> <div>4. IN ACCORDANCE WITH CURRENT DOCUMENTATION POLICY.</div> <div>5. COMPUTED USING CURRENT AFS HIGH-LOW TEMPERATURE LIMIT CALCULATOR.</div> <div>6. BACK-UP ALTIMETER SOURCE NOT REQUIRED, 24-HOUR CONTROL TOWER HAS REDUNDANT WEATHER SOURCES.</div> <div>7. BACK-UP ALTIMETER SOURCE NOT REQUIRED, 24-HOUR CONTROL TOWER HAS REDUNDANT WEATHER SOURCES.</div> <div>8. REPLACED BY UPDATED NOTE.</div> <div>9. REPLACED BY UPDATED NOTE.</div> <div>10. REPLACED BY UPDATED NOTE.</div> <div>11. FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11O(2)(G).</div> <div>12. FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11K(3).</div> <div>13. FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11O(3)(D).</div> <div>14. 34:1 PENETRATIONS EXIST.</div> <div>(SEE FORM 8260-10)</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
773 MSL	ZUSAB (DF) (FB) (RNP 1.00)		
ZUSAB	DAMEN (TF) (FO) (RNP 1.00)	268.78 / 13.40	3000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MIXKO ON V51 SOUTHBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FINCH ON V512 EASTBOUND.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY AND LNAV CATS A/B VISIBILITY TO RVR 5000.

QUALITY
25
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) RWY 29, ORIG-C

SUP:
AMDT: ORIG-B
DATED: 10/15/2015

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH: <div><div>ATA<div></div></div><div>AAT<div></div></div><div>ALPA<div></div></div><div>APA<div></div></div><div>AOPA<div></div></div><div>NBAA<div></div></div><div>OTHER (specify)<div></div></div></div>					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
<div>CHANGES:</div> <div>CHANGES CONT.</div> <div>15. AMENDED HOLD-IN-LIEU LEG LENGTH FROM 5 NM TO 4 NM.</div> <div>16. DELETED CHART 740 TOWER 380933N/0854348W IN ADDITIONAL FLIGHT DATA.</div> <div>17. AMENDED LTP LAT/LONG ON FAS DATA PAGE FROM 381022.9900N/085544325.7700W TO 381022.9895N/0854325.7655W.</div> <div>18. AMENDED FTP LONGITUDE ON FAS DATA PAGE FROM 0854511.1800W TO 0854511.1710W.</div> <div>19. AMENDED CRC REMAINDER FROM B97E342A TO F153A3EB.</div> <div>20. INCORPORATED CHANGES FROM ORIG-A (P-NOTAM 1/0278) AND ORIG-B (P-NOTAM 5/6011).</div>					
<div>REASONS:</div> <div>REASONS CONT.</div> <div>15. UPDATED TO FAAO 8260.3C, TABLE 17-10-1 LEG LENGTH FOR HOLDING TEMPLATE 5.</div> <div>16. LNAV-VNAV CONTROLLING OBSTACLE NO LONGER CHARTED.</div> <div>17. MATCH CURRENT AIRNAV VALUE TO TEN THOUSANDTH OF AN ARC SECOND.</div> <div>18. MATCH CURRENT COMPUTED VALUE TO TEN THOUSANDTH OF AN ARC SECOND.</div> <div>19. COMPUTED USING UPDATED LTP AND FTP VALUES.</div> <div>20. IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-3-4C(2).</div>					

QUALITY
25
CHECKED

**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	RW29
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	381022.9895N
LTP/FTP LONGITUDE	0854325.7655W
LTP/FTP ELLIPSOIDAL HEIGHT	+01130
FPAP LATITUDE	381055.1300N
FPAP LONGITUDE	0854511.1710W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0544
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 F153A3EB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01463
FPAP ORTHOMETRIC HEIGHT	+01463

QUALITY
25
CHECKED

CITY AND STATE LOUISVILLE, KY	ELEVATION: 501 AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	TDZE: 480 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 29, ORIG-C	SUP:
				AMDT: ORIG-B
				DATED: 10/15/2015

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		
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	PART - A OBSTRUCTION DATA
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1. APP SEGMENT		FROM		TO		OBSTRUCTION		COORDINATES		ELEV. MSL		ROC		ALT. ADJUSTMENTS		MIN. ALT.			
INITIAL		MIXKO		CITMO		1. TOWER (18-1730)		375814.00N/0852907.00W		1107 (2C)		1000		AT800		3000			
						2. TERRAIN		380000.00N/0853106.00W		739 (700)				AS1500		2200			
INITIAL		FINCH		CITMO		3. 200' AAO		380929.00N/0851250.00W		1039 (2C)		1000		AT900		3000			
						4. TERRAIN		380929.00N/0851250.00W		839 (800)				AS1500		2300			
INTERMEDIATE		CITMO (IF/IAF)		CUCAK		5. TOWER (18-0719)		380853.00N/0852942.00W		1089 (5D)		500				1600			
						6. TERRAIN		380933.00N/0853357.00W		739 (700)				AS1500		2200			
FINAL: LPV		CUCAK		RW29		7. TREE (KSDF0023)		381008.90N/0854246.21W		552 (1A)		27:1				773/293			
FINAL: LNAV/VNAV		CUCAK		RW29		8. TOWER (21-000974)		380928.48N/0854226.00W		633 (2C)		23.4:1		MA94		943/463			
FINAL: LNAV		CUCAK		RW29		9. TOWER		380816.07N/0853920.59W		736 (4D)		250		AC50		1040			
2. HOLD-IN-LIEU-OF-PT		CITMO		P-5		10. TOWER (18-0524)		381104.00N/0852957.00W		1103 (5D)		1000		AT800		3000			
						11. TERRAIN		380821.00N/0852112.00W		791 (800)				AS1500		2300			
3. MISSED APPROACH	MAP:		DA / DA / RW29		DAMEN		8. ROD ATCT		380932.61N/0854348.30W		740 (1A)		ASC				3000		
							12. TOWER (15-1132)		381025.00N/0855450.00W		1349 (5D)		1000				2400		
	ELEV:		552/633/790				13. TERRAIN		381242.00N/0855551.00W		952 (1000)				AS1500		2500		
4. CIRCLING AREA		DISTANCE				HT. ABV. ARPT.													
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	539	14. ATCT (21-001527)		380932.61N/0854348.30W		740 (1A)		300				1040	
CATEGORY B		1.5 NM			450		639	15. TREE (21-036797)		380923.78N/0854617.68W		834 (1B)		300				1140	
CATEGORY C		1.7 NM			450		659	16. TREE (21-030754)		380940.36N/0854708.99W		849 (1B)		300				1160	
CATEGORY D		2.3 NM			550		899	17. AAO		380608.67N/0854226.20W		1094 (2C)		300				1400	
CATEGORY E		4.5 NM			550														
5. MINIMUM SAFE ALTITUDES																			
PRIMARY NAVAID: RW29																			
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A	
360-360		TWR (21-001039)		045/22.1		2549 (5D)		3600										QUALITY	
																		25	
CITY AND STATE				ELEVATION: 501				FACILITY				PROCEDURE AND AMENDMENT NO:				REGION			
LOUISVILLE, KY				AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD				RNAV				RNAV (GPS) RWY 29, ORIG-C				ASO			

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:																								
1. COMMUNICATIONS WITH:					2. WEATHER SERVICE					3. ALTIMETER SETTING					PRECIPITOUS TERRAIN EVALUATION COMPLETED.																			
SDF TOWER SDF APP CON ZID ARTCC							N W S		OTHER: ASOS					SOURCE:KSDF					ORDER 8260.3 CHAPTER 2 APPLIED TO 789 TREE 380836N/0853657W 2. KSDF ASOS ON WMSCR. 3. 24 HOUR ATC TOWER HAS REDUNDANT WEATHER SOURCES, BACK-UP ALTIMETER NOT REQUIRED. 5. VGSJ DATA: 3.00/55.5.															
							F A A							DISTANCE:																				
							A / C							HOURS REMOTE OPERATION: 24																				
SATISFACTORY ON:					LOCATION: KSDF					ADJUSTMENT: 0					CRITICAL TEMPERATURES: CRITICAL LOW :-16C (+4F) CRITICAL HIGH :+54C (+130F) ACT :-16C APT ISA :+14.01C CRITICAL TEMPERATURE REMARKS AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION 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. TAA NOT DEVELOPED PER FPT. LPV, LNAV/VNAV, AND LNAV INTERMEDIATE SEGMENTS HAVE THE SAME CONTROLLING OBSTACLES. OBS 9: OBSTACLE NOT ENTERED INTO DATA BASE. INFORMATION OBTAINED FROM OE STUDY 1998-ASO-6461-OE. LPV INNER SURFACE = 27.03.:1 OUTER SURFACE = 34:1 LNAV/VNAV INNER SURFACE = 23.4:1 OUTER SURFACE = 34:1 AFS MEMO GUIDANCE FOR HANDLING PENETRATIONS TO THE 20:1 VISUAL AREA SURFACE, DATED 5/22/15, USED TO EVALUATE VISUAL SURFACES. LPV, LNAV/VNAV, LNAV, 34:1 563 TREE (21-039669) 381018.56N/0854253.73W (13.95) 538 TREE (21-027962) 381020.46N/0854303.68W (12.78) 526 TREE (21-036796) 381020.53N/0854307.55W (9.34) 518 TREE (21-035386) 381020.74N/0854310.79W (8.66) 554 TREE (21-027968) 381009.82N/0854259.62W (8.47) 544 TREE (21-032062) 381018.35N/0854258.72W (5.65) 503 TREE (21-039384) 381022.05N/0854315.37W (5.10) 525 TREE (21-031312) 381020.16N/0854306.02W (4.59) 524 TREE (21-027960) 381020.22N/0854306.32W (4.31) 566 TREE (21-034476) 381006.78N/0854252.20W (0.96) 529 TREE (21-035311) 381019.17N/0854302.85W (0.58)																			
X	V H F	X	U H F		H F																													
4. MONITOR STATUS		PRIMARY NAVAID:																							CONT.									
		MONITOR POINT:																																
		HRS OPTN:		CAT 1				CAT 3																										
5. APPROACH & RUNWAY LIGHTING		X		ALSF-2 35L, 35R													CRITICAL TEMPERATURE REMARKS AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION 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. TAA NOT DEVELOPED PER FPT. LPV, LNAV/VNAV, AND LNAV INTERMEDIATE SEGMENTS HAVE THE SAME CONTROLLING OBSTACLES. OBS 9: OBSTACLE NOT ENTERED INTO DATA BASE. INFORMATION OBTAINED FROM OE STUDY 1998-ASO-6461-OE. LPV INNER SURFACE = 27.03.:1 OUTER SURFACE = 34:1 LNAV/VNAV INNER SURFACE = 23.4:1 OUTER SURFACE = 34:1 AFS MEMO GUIDANCE FOR HANDLING PENETRATIONS TO THE 20:1 VISUAL AREA SURFACE, DATED 5/22/15, USED TO EVALUATE VISUAL SURFACES. LPV, LNAV/VNAV, LNAV, 34:1 563 TREE (21-039669) 381018.56N/0854253.73W (13.95) 538 TREE (21-027962) 381020.46N/0854303.68W (12.78) 526 TREE (21-036796) 381020.53N/0854307.55W (9.34) 518 TREE (21-035386) 381020.74N/0854310.79W (8.66) 554 TREE (21-027968) 381009.82N/0854259.62W (8.47) 544 TREE (21-032062) 381018.35N/0854258.72W (5.65) 503 TREE (21-039384) 381022.05N/0854315.37W (5.10) 525 TREE (21-031312) 381020.16N/0854306.02W (4.59) 524 TREE (21-027960) 381020.22N/0854306.32W (4.31) 566 TREE (21-034476) 381006.78N/0854252.20W (0.96) 529 TREE (21-035311) 381019.17N/0854302.85W (0.58)																	
				(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												CONT.																			
			ALL WEATHER PIR-G 17L, 17R, 29, 35L, 35R																															
			INSTRUMENT																															
7. RUNWAY VISUAL RANGE			APPROACH 17L, 17R, 29, 35L, 35R												CONT.																			
			MIDFIELD 17L, 17R, 35L, 35R																															
			ROLL OUT 17L, 17R, 35L, 35R																															
8. GLIDE PATH			GP ANGLE: 3.00					ELEV RWY THRESHOLD:480.0					CONT.																					
			DISTANCE FROM RWY:					ELEV GP ANTENNA:																										
								THRESHOLD CROSSING HEIGHT:55.0																										
9. FINAL APPROACH COURSE AIMING				X		RUNWAY THRESHOLD					FT. FROM THRESHOLD					CONT.																		
				X		ON CENTERLINE					FT. FROM CENTERLINE																							
10. WAIVERS: NONE															CONT.																			
PART D - PREPARED BY: PETER R. GUIMOND										DATE: 08/22/2017										CONT.														
TITLE: AERONAUTICAL INFORMATION SPECIALIST										OFFICE: AJV-5422										CONT.														



STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD		
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PART - A OBSTRUCTION DATA

[illegible]

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.								
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL						
CATEGORY B	1.5 NM		450							
CATEGORY C	1.7 NM		450							
CATEGORY D	2.3 NM		550							
CATEGORY E	4.5 NM		550							

5. MINIMUM SAFE ALTITUDES				PRIMARY NAVAID:					
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
									QUALITY
									25

CITY AND STATE LOUISVILLE, KY	ELEVATION: 501 AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	FACILITY RNAV	PROCEDURE AND AMENDMENT NO: RNAV (GPS) RWY 29, ORIG-C	REGION ASO
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PART B - SUPPLEMENTAL DATA										PART C - REMARKS: CONTINUED. 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						
SATISFACTORY ON:				N W S	OTHER:		SOURCE:					
				F A A			DISTANCE:					
				A / C			HOURS REMOTE OPERATION:					
	V H F		U H F		H F	LOCATION:			ADJUSTMENT:			
4. MONITOR STATUS		PRIMARY NAVAID:										
		MONITOR POINT:										
		HRS	CAT 1									
		OPTN:	CAT 3									
5. APPROACH & RUNWAY LIGHTING			ALS									
			(S) SALS									
			MAL S									
			HIRL									
			MIRL									
			REIL									
			TDZ									
			C/LINE									
6. RUNWAY MARKINGS			OTHER (SPECIFY)									
			BASIC									
			ALL WEATHER									
7. RUNWAY VISUAL RANGE			INSTRUMENT									
			APPROACH									
			MIDFIELD									
8. GLIDE PATH			ROLL OUT									
		GP ANGLE:				ELEV RWY THRESHOLD:						
		DISTANCE FROM RWY:				ELEV GP ANTENNA:						
9. FINAL APPROACH COURSE AIMING			THRESHOLD CROSSING HEIGHT:									
			RUNWAY THRESHOLD							FT. FROM THRESHOLD		
10. WAIVERS:			ON CENTERLINE							FT. FROM CENTERLINE		
PART D - PREPARED BY:						DATE:						
TITLE:						OFFICE:						

