US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) - 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

FROM	TO	COURSE AND DISTANCE	ALTITUDE
THUND (IF)	RACRR (TF) (FB) (RNP 0.50)	167.86 / 3.53	4000
RACRR	SLGRR (TF) (FB) (RNP 0.50)	167.87 / 5.77	2500
KAEDN (IF)	STYKR (TF) (FB) (RNP 1.00)	347.34 / 3.01	5000
STYKR	JUMIP (RF) (FB) (RNP 1.00)	(2.80 NM RADIUS CCW (CFBFD))/4.32	3600
CHUWE (IF)	JUMIP (TF) (FB) (RNP 1.00)	259.06 / 6.00	3600
(SEE FORM 8260-10)			

MISSED APPROACH

RNP: DA

CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 3000 DIRECT IIU VORTAC AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT SLGRR
3. FAC: 167.89 FAF: ____ DIST FAF TO MAP: 6.11 THLD: ____
4. MIN. ALT: SLGRR 2500
5. DIST TO THLD FROM OM: 6.11 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# 34:1 IS NOT CLEAR
8. MSA FROM: RW17L 3600

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 300.00 INBOUND.

CHART FAS OBST: 580 TREE 381140N/0854349W
ROUTE TYPE: A, H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
DISTANCE TO THLD FROM 320 HATH: 0.83 NM.
CHART MANDATORY 5000 AT STYKR.
CHART MINIMUM 5000 AT THUND.
CHART MINIMUM 5000 AT KAEDN.
#TCH 554.2 MSL (DO NOT CHART).
CHART MANDATORY 5000 AT CHUWE.
CHART MINIMUM 4000 AT ALANB.
CHART MINIMUM 4000 AT COBLR.
CHART LOC RWY 17R

MAG VAR: 3W EPOCH YEAR: 1995

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
AUTHORIZATION REQUIRED															
RNP 0.15 DA	819	4000	320	819	4000	320	819	4000	320	819	4000	320			
RNP 0.30 DA	979	6000	480	979	6000	480	979	6000	480	979	6000	480			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -14C (7F) OR ABOVE 37C (98F).
CHART NOTE: GPS REQUIRED.
CHART PLANVIEW NOTE ADJACENT TO KAEDN: RF REQUIRED.
CHART PLANVIEW NOTE ADJACENT TO CHUWE: RF REQUIRED.
(SEE FORM 8260-10)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 501 THRE: 499	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	RNAV	RNAV (RNP) Z RWY 17L, ORIG	AMDT: NONE
				DATED

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		ROUTINE

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
X		X	X	X	X	X SDF AMGR, SDF ATCT, SDF APPROACH CONTROL

FLIGHT CHECKED BY		
NAME: THOMAS H. DORMAN	FIFO AVN	DATE: 05/16/2012
DEVELOPED BY		
NAME: DONALD E. SMITH (CHRISTOPHER COX)	FIFO AJV-352	DATE: 08/10/2011
APPROVED BY		
NAME: DARRYEL ADAMS MANAGER	FIFO AJV-352	DATE: 05/25/2012

CHANGES:

REASONS:

04/17/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/10/2011.
1. REPLACED 8260-10 PAGE 3-6. ORINGINALLY WRONG RWY 17R CODING PAGES INCLUDED IN THIS PACKAGE. NOW, CORRECT RWY 17L CODING PAGES INCLUDED IN THIS PACKAGE.

06/11/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 05/25/2012.
1. DELETED FAS OBSTACLE 650 ARCH FROM 8260-3 AND 9.

QUALITY CHECKED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
JUMIP	SLGRR (RF) (FB) (RNP 1.00)	(2.25 NM RADIUS CCW (CFBFF))/3.57	2500
ALANB (IF)	CIKCA (TF) (FB) (RNP 1.00)	078.34 / 4.00	3600
COBLR (IF)	YUNDV (TF) (FB) (RNP 1.00)	348.52 / 3.01	4000
YUNDV	CIKCA (RF) (FB) (RNP 1.00)	(2.78 NM RADIUS CW (CFBCB))/4.36	3600
CIKCA	WOTED (TF) (FB) (RNP 1.00)	078.39 / .56	3500
WOTED	SLGRR (RF) (FB) (RNP 1.00)	(2.44 NM RADIUS CW (CFBCJ))/3.80	2500
SLGRR (FAF)	RW17L (MAP) (TF) (FO)	167.89 / 6.11	
DA (MAP)	1000 MSL	167.89	
1000 MSL	IIU VORTAC (DF) (FO)		3000

NOTES, (CONT.):
CHART PLANVIEW NOTE ADJACENT TO COBLR: RF REQUIRED.
CHART PLANVIEW NOTE ADJACENT TO ALANB: RF REQUIRED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
CHART PLANVIEW NOTE AT THUND: (RNP 0.50).
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.15 ALL CATS VISIBILITY TO 1 MILE AND RNP 0.30 ALL CATS VISIBILITY TO 1 5/8 MILES.
CHART PLANVIEW NOTE AT YUNDV: MAX 210 KIAS.
CHART PLANVIEW NOTE AT STYKR: MAX 220 KIAS.
CHART PLANVIEW NOTE AT JUMIP: MAX 200 KIAS.
CHART PLANVIEW NOTE AT WOTED: MAX 210 KIAS.
CHART PLANVIEW NOTE ADJACENT TO ALANB AND CHUWE: RADAR REQUIRED.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 17R, EXCEPT FOR ARRIVALS AT CHUWE, KAEDN ALANB, AND COBLR.
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

QUALITY CHECKED 9

CITY AND STATE	ELEVATION: 501 THRE: 499	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	RNAV	RNAV (RNP) Z RWY 17L, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

QUALITY CHECKED

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ARINC PACKET - 424-18 - RNAV (RNP)

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        IIU   K5011480VTH  N38061247W085343877    N38061247W085343877E0010007202     NARLOUISVILLE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ALANB K50    W     N38173962W085551552                      W0043     NAR           ALANB
        SUSAEAENRT   CFBCB K50    W     N38155892W085492715                      W0044     NAR           CNF(CFBCB)
        SUSAEAENRT   CFBCJ K50    W     N38162720W085485220                      W0044     NAR           CNF(CFBCJ)
        SUSAEAENRT   CFBFD K50    W     N38170830W085425741                      W0045     NAR           CNF(CFBFD)
        SUSAEAENRT   CFBFF K50    W     N38174055W085430759                      W0045     NAR           CNF(CFBFF)
        SUSAEAENRT   CHUWE K50    W     N38211854W085362502                      W0046     NAR           CHUWE
        SUSAEAENRT   CIKCA K50    W     N38184032W085502052                      W0044     NAR           CIKCA
        SUSAEAENRT   COBLR K50    W     N38122209W085515462                      W0044     NAR           COBLR
        SUSAEAENRT   JUMIP K50    W     N38195151W085434907                      W0045     NAR           JUMIP
        SUSAEAENRT   KAEDN K50    W     N38145968W085382999                      W0045     NAR           KAEDN
        SUSAEAENRT   RACRR K50    C     N38223971W085474764                      W0044     NAR           RACRR
        SUSAEAENRT   SLGRR K50    C     N38170539W085455295                      W0045     NAR           SLGRR
        SUSAEAENRT   STYKR K50    W     N38175366W085393188                      W0045     NAR           STYKR
        SUSAEAENRT   THUND K50    C     N38260454W085485805                      W0044     NAR           THUND
        SUSAEAENRT   WOTED K50    W     N38184884W085493903                      W0044     NAR           WOTED
        SUSAEAENRT   YUNDV K50    W     N38151714W085525195                      W0044     NAR           YUNDV

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSDFK5ASDF     0     118YHN38102671W085441140W003000501         1800018000C    MNAR    LOUISVILLE INTL-STANDIFORD FIE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSDFK5FH17LZ AALANB 010ALANBK5EA0E  B    IF                                  + 04000     18000                A FS
        SUSAP KSDFK5FH17LZ AALANB 020CIKCAK5EA0E    010TF                                  + 03600                          A FS
        SUSAP KSDFK5FH17LZ AALANB 030WOTEDK5EA0E    010TF                                  + 03500          210             A-FS
        SUSAP KSDFK5FH17LZ AALANB 040SLGRRK5EA0EE  R010RF       0024400784    16790038    + 02500                CFBCJ K5EAA FS
        SUSAP KSDFK5FH17LZ ACHUWE 010CHUWEK5EA0E  B    IF                                    05000     18000                A FS
        SUSAP KSDFK5FH17LZ ACHUWE 020JUMIPK5EA0E    010TF                                  + 03600          200             A-FS
        SUSAP KSDFK5FH17LZ ACHUWE 030SLGRRK5EA0EE  L010RF       0022502591    16790036    + 02500                CFBFF K5EAA FS
        SUSAP KSDFK5FH17LZ ACOBLR 010COBLRK5EA0E  B    IF                                  + 04000     18000                A FS
        SUSAP KSDFK5FH17LZ ACOBLR 020YUNDVK5EA0E    010TF                                  + 04000          210             A-FS
        SUSAP KSDFK5FH17LZ ACOBLR 030CIKCAK5EA0E   R010RF       0027803485    07840044    + 03600                CFBCB K5EAA FS
        SUSAP KSDFK5FH17LZ ACOBLR 040WOTEDK5EA0E    010TF                                  + 03500          210             A-FS
```

CITY AND STATE	ELEVATION: 501 THRE: 499	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	RNAV	RNAV (RNP) Z RWY 17L, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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SUSAP KSDFK5FH17LZ ACOBLR 050SLGRRK5EA0EE  R010RF       0024400784    16790038    + 02500                CFBCJ K5EAA FS
SUSAP KSDFK5FH17LZ AKAEDN 010KAEDNK5EA0E  B    IF                                  + 05000     18000                A FS
SUSAP KSDFK5FH17LZ AKAEDN 020STYKRK5EA0E    010TF                                    05000          220              A-FS
SUSAP KSDFK5FH17LZ AKAEDN 030JUMIPK5EA0E   L010RF       0028003473    25910043    + 03600          200    CFBFD K5EAA-FS
SUSAP KSDFK5FH17LZ AKAEDN 040SLGRRK5EA0EE  L010RF       0022502591    16790036    + 02500                CFBFF K5EAA FS
SUSAP KSDFK5FH17LZ ATHUND 010THUNDK5EA0E  B    IF                                  + 05000     18000                A FS
SUSAP KSDFK5FH17LZ ATHUND 020RACRRK5EA0E    051TF                                  + 04000                          A FS
SUSAP KSDFK5FH17LZ ATHUND 030SLGRRK5EA0EE   051TF                                  + 02500                          A FS
SUSAP KSDFK5FH17LZ H      020SLGRRK5EA1E  F    IF                                  + 02500     18000       RW17L K5PGA FS
SUSAP KSDFK5FH17LZ H      020SLGRRK5EA2W                                                A031A152                     FS
SUSAP KSDFK5FH17LZ H      030RW17LK5PG0GY M 031TF                                    00555             -300          A FS
SUSAP KSDFK5FH17LZ H      040        0  M     CA                    1679        + 01000                          A FS
SUSAP KSDFK5FH17LZ H      050IIU  K5D 0VY      DF                                  + 03000                          A FS
SUSAP KSDFK5FH17LZ H      060IIU  K5D 0VE  R   HM                    30000040    + 03000                          A FS
```

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY   123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KSDFK5GRW17L   0085791679 N38111114W085435176-0300    +0118900499032955150IIPKI1
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                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KSDFK5SRW17LK5PG                0   18018003625                                                                        M
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CITY AND STATE	ELEVATION: 501 THRE: 499	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	RNAV	RNAV (RNP) Z RWY 17L, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (RNP)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ALANB	ALANB	010		IF		FB				AA 04000	
	ALANB	CIKCA	020		TF		FB	1.0			AA 03600	
	ALANB	WOTED	030		TF		FB	1.0			AA 03500	AB 210
	ALANB	SLGRR	040		RF	R	FB	1.0		003.8	AA 02500	
	CHUWE	CHUWE	010		IF		FB				AT 05000	
	CHUWE	JUMIP	020		TF		FB	1.0			AA 03600	AB 200
	CHUWE	SLGRR	030		RF	L	FB	1.0		003.6	AA 02500	
	COBLR	COBLR	010		IF		FB				AA 04000	
	COBLR	YUNDV	020		TF		FB	1.0			AA 04000	AB 210
	COBLR	CIKCA	030		RF	R	FB	1.0		004.4	AA 03600	
	COBLR	WOTED	040		TF		FB	1.0			AA 03500	AB 210
	COBLR	SLGRR	050		RF	R	FB	1.0		003.8	AA 02500	
	KAEDN	KAEDN	010		IF		FB				AA 05000	
	KAEDN	STYKR	020		TF		FB	1.0			AT 05000	AB 220
	KAEDN	JUMIP	030		RF	L	FB	1.0		004.3	AA 03600	AB 200
	KAEDN	SLGRR	040		RF	L	FB	1.0		003.6	AA 02500	
	THUND	THUND	010		IF		FB				AA 05000	
	THUND	RACRR	020		TF		FB	0.5			AA 04000	
	THUND	SLGRR	030		TF		FB	0.5			AA 02500	
		SLGRR	020	FAF	IF		FB				AA 02500	
		RW17L	030	MAP	TF		FO	0.3			AT 00555	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		167.9(164.9T)		AA 01000	
	IIU	050		DF		FO				AA 03000	
	IIU	060		HM	R	FO		300.0(297.0T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	IIU	N380612.47	W0853438.77	N3806.208	W08534.646
	ALANB	N381739.62	W0855515.52	N3817.660	W08555.259
	CFBCB	N381558.92	W0854927.15	N3815.982	W08549.453
	CFBCJ	N381627.20	W0854852.20	N3816.453	W08548.870
	CFBFD	N381708.30	W0854257.41	N3817.138	W08542.957
	CFBFF	N381740.55	W0854307.59	N3817.676	W08543.127
	CHUWE	N382118.54	W0853625.02	N3821.309	W08536.417
	CIKCA	N381840.32	W0855020.52	N3818.672	W08550.342
	COBLR	N381222.09	W0855154.62	N3812.368	W08551.910
	JUMIP	N381951.51	W0854349.07	N3819.859	W08543.818
	KAEDN	N381459.68	W0853829.99	N3814.995	W08538.500
	RACRR	N382239.71	W0854747.64	N3822.662	W08547.794

CITY AND STATE	ELEVATION: 501 THRE: 499	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	RNAV	RNAV (RNP) Z RWY 17L, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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SLGRR	N381705.39	W0854552.95	N3817.090	W08545.883
STYKR	N381753.66	W0853931.88	N3817.894	W08539.531
THUND	N382604.54	W0854858.05	N3826.076	W08548.968
WOTED	N381848.84	W0854939.03	N3818.814	W08549.651
YUNDV	N381517.14	W0855251.95	N3815.286	W08552.866
RW17L	N381111.14	W0854351.76	N3811.186	W08543.863

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW17L	00499	55

CITY AND STATE	ELEVATION: 501 THRE: 499	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	RNAV	RNAV (RNP) Z RWY 17L, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	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.
INTERMEDIATE: (RNP 0.50)	THUND	RACRR	1. TOWER (18-001107)	382518.00N/0854942.00W	1292 (5D)	500	AC50 AT2158	4000
			2. TERRAIN	382524.00N/0854930.00W	1008 (1000)		AS1500	2500
INTERMEDIATE: (RNP 0.50)	RACRR	SLGRR	3. AAO	382239.00N/0854900.00W	1155 (4E)	500	VEB174 DG573 AC98	2500
STEPDOWN			4. TERRAIN	382227.00N/0854854.00W	670 (700)		AS1500	2200
INTERMEDIATE: (RNP 1.00)	KAEDN	STYKR	5. AAO	381718.00N/0853706.00W	821 (4E)	500	AC98 AT3581	5000
			6. TERRAIN	381733.00N/0853712.00W	621 (620)		AS1500	2100
INTERMEDIATE: (RNP 1.00)	STYKR	JUMIP	5. AAO	381718.00N/0853706.00W	821 (4E)	500	AC98 AT2181	3600
STEPDOWN			7. TERRAIN	381830.00N/0853718.00W	614 (600)		AS1500	2100
INTERMEDIATE: (RNP 1.00)	CHUWE	JUMIP	8. AAO	381936.00N/0853439.00W	857 (4E)	500	AC98 AT2145	3600
			9. TERRAIN	381927.00N/0853703.00W	621 (600)		AS1500	2100
INTERMEDIATE: (RNP 1.00)	JUMIP	SLGRR	10. AAO	382042.00N/0854227.00W	732 (4E)	500	AC98 DG1170	2500
STEPDOWN			11. TERRAIN	381921.00N/0854339.00W	525 (500)		AS1500	2000
INTERMEDIATE: (RNP 1.00)	ALANB	CIKCA	12. TOWER (18-000597)	382010.00N/0855140.00W	1289 (3D)	500	AC50 AT1761	3600
			13. TERRAIN	382033.00N/0855118.00W	945 (900)		AS1500	2400

2. PROCEDURE TURN

3. MISSED APPROACH

MAP:

ELEV:

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
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: **RW17L**

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (21-001039)	045/ 21.7	2549 (5D)	3600					

CITY AND STATE	ELEVATION: 501 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
LOUISVILLE, KY	LOUISVILLE INTL-STANDIFORD FIELD	RNAV	RNAV (RNP) Z RWY 17L, ORIG	ASO

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
SDF APP CON SDF TOWER IND ARTCC		N W S	OTHER: ASOS	SOURCE: KSDF
		F A A		DISTANCE:
SATISFACTORY ON:		A / C		HOURS REMOTE OPERATION: 24
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	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 35R, 35L
		(S) SALS
	X	MALSR 17R, 29, 17L
	X	HIRL 35R, 11, 17R, 35L, 29, 17L
		MIRL
		REIL
	X	TDZ 35R, 17R, 35L, 17L
	X	C/L 35R, 17R, 35L, 17L
	X	OTHER (SPECIFY) PAPI-4R 17R PAPI-4L 35R, 35L, 17L
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 35R, 11, 17R, 35L, 29, 17L
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	35R, 17R, 35L, 29, 17L
	MIDFIELD	35R, 17R, 35L, 17L
	ROLL OUT	35R, 17R, 35L, 17L
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 499.4
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 55.2
9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD FT. FROM THRESHOLD
	X	ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: 2

ORDER 8260.52, PARAGRAPH 2.3; MINIMUM SEGMENT LENGTH EXCEEDED BETWEEN CIKCA AND ANEZO (MIN IS 2.00 NM WITH RNP 1.00, ACUTAL IS 0.56 NM)
ORDER 8260.52, PARAGRAPH 2.4; DESCENT GRADIENT BETWEEN STYKR AND JUMIP EXCEEDS FINAL DESCENT ANGLE OF 318 (325 FT/NM)

PART D - PREPARED BY: DONALD E. SMITH (CHRISTOPHER COX)	DATE: 08/10/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

ACTUAL HIGH TEMP: 37C (98F)

ISA DEVIATION USED: -28C (-18.4F)

VDP NOT ESTABLISHED - PROCEDURE IS RNP.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ACT:-14C/7F

2. ASOS ON SERVICE A. OTHER: TDWR
3. BACKUP ALTIMETER NOT REQUIRED DUE TO REDUNDANT LOCAL SOURCES.

KSDF ASOS ON SERVICE A/24 HOUR OPERATION.

SEE ATTACHED AIRSPACE LETTER.

8260.52 TABLE 1-3 APPLIED FOR ALL TW DATA EXCEPT RADIUS TURN AT STYKER WHERE 99% WINDS CONSIDERED PROVIDED A BENEFIT.

IPDS MODULE 1 RELEASE-VERSION 1.2.5.8708 USED TO DEVELOP 8260.54A MISSED APPROACH
MISSED APPROACH: FAA 8260.54A PARA 6.2.1, TURN AT AN ALTITUDE FOLLOWED BY A DF LEG

RF TURN RADIUS/BANK ANGLE COMPUTATIONS:
STYKR TO JUMIP, ALT: 5009.02, KIAS: 220, KTAS: 242.04, HAA: 4508.2, VKTW: 56, TR: 17017.00FT (2.80), BA: 24.83, DEG OF TRN: 88.34
JUMIP TO SLGGR, ALT: 3600, KIAS: 200, KTAS: 214.54, HAA: 3100, VKTW: 51.34, TR: 13655 FT (2.25), BA: 24.65, DEG OF TRN: 91.102D
YUNDV TO CIKCA, ALT: 4730 KIAS: 220, KTAS: 237.60, HAA 4229.2, VKTW: 54.99, TR: 16873.00 FT (2.67), BA: 22.64D, DEG OF TRN: 89.88
WOTED TO SLGRR, ALT: 3500, KIAS: 210, KTAS: 224.70, HAA: 2999.2, VKTW: 50, TR: 14806.70FT (2.44NM), BA: 24.31, DEG OF TRN: 89.49
SPEED RESTRICTIONS:
AT YUNDV: MAX 210 KIAS
AT STYKR: MAX 220 KIAS
AT JUMIP: MAX 200 KIAS
AT WOTED MAX 210 KIAS

THRESHOLD DISPLACED 348.93 FT

AVG VEG 100FT

XP - AFTER PROCEDURE WAS DEVELOPD 21-001900, #18, HAS BEEN DISMANTLED AND NO DUE TO TIME CONSTRAINTS FOR PRB REVIEW, WE WILL NEED TO AMEND PRODCEDURE AFTER PUBLICATION.

SEE ATTACHED VEB SPREADSHEET

VGSI DATA: PAPI 70.5/3.32

THUND AND RACRR INTERMEDIATES USING 0.50 RNP TO ALLEVIATE VEB ROC CAUSING A 2700 FT PFAF ALTITUDE WITH RNP 1.00

TERPS, VOLUME 1, "VISUAL PORTION OF FINAL"
PENETRATIONS: 34:1
522 POLE (KSDF0031) (20/3) 381121.94N/0854351.51W (1.21)

CONT.

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INTERMEDIATE: (RNP 1.00)	COBLR	YUNDV	14. AAO	381551.00N/0855506.00W	1067 (4E)	500	AC98 AT2335	4000
			15. TERRAIN	381436.00N/0855457.00W	821 (800)		AS1500	2300
INTERMEDIATE: (RNP 1.00)	YUNDV	CIKCA	12. TOWER (18-000597)	382010.00N/0855140.00W	1289 (3D)	500	AT1761 AC50	3600
STEPDOWN			13. TERRAIN	382033.00N/0855118.00W	945 (900)		AS1500	2400
INTERMEDIATE: (RNP 1.00)	CIKCA	WOTED	12. TOWER (18-000597)	382010.00N/0855140.00W	1289 (3D)	500	AC50 DG1661	3500
STEPDOWN			13. TERRAIN	382033.00N/0855118.00W	945 (900)		AS1500	2400
INTERMEDIATE: (RNP 1.00)	WOTED	SLGRR	12. TOWER (18-000597)	382010.00N/0855140.00W	1289 (3D)	500	AC50 DG661	2500
STEPDOWN			16. TERRAIN	382048.00N/0855003.00W	634 (600)		AS1500	2100
FINAL: (RNP 0.15)	SLGRR	RW17L	17. TREE (KSDF0127)	381139.65N/0854349.23W	580 (1A)	21.52:1	AC3 MA30	819/320
FINAL: (RNP 0.30)	SLGRR	RW17L				ASC	XP 126	979/480
MISSED APPROACH	DA	RW17l (40:1)	19. SIGN (21-001490)	381140.00N/0854404.00W	572 (1A)	ASC	AC3	
(RNP 0.15-1.00)								
MISSED APPROACH	DA	RW17L (40:1)				ASC		
(RNP 0.30-1.00)								

3. MISSED APPROACH	
MAP:	
ELEV:	

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

QUALITY CHECKED

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
LOUISVILLE, KY	ELEVATION: 501 AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	RNAV	RNAV (RNP) Z RWY 17L, ORIG	ASO

PART B - SUPPLEMENTAL DATA

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 OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

06/08/2012: THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 08/10/2011.
1. CHANGED OBSTACLE #18, 21-001900 ACCURACY CODE FROM 4D TO 5D.

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

CONTINUED.
519 POLE (KSDF0028) (20/3) 381120.63N/0854349.07W
(3.46)

RADAR VECTORS AT ALANB AND CHUWE LIMITED TO 30 DEGREES EITHER SIDE OF COURSE.

SIMULTANEOUS OPERATIONS DIRECTED BY ATO, AJW-372, IAW 8260.19E

AVERAGE LOW TEMP HISTORY -14C/7F UTILIZED FROM THE FOLLOWING TEMPERATURES: 2006-9F 2007-5F 2008-7F 2009-1F 2010-7F

AVERAGE HIGH TEMP HISTORY 37C/98F UTILIZED FROM THE FOLLOWING TEMPERATURE: 2006-94F 2007-105F 2008-97F 2009-92F 2010-102F

CONT.

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
MISSED APPROACH	**RW17L**	**IIU VORTAC(40:1)**				**ASC**		
(RNP 0.15-1.00)								
MISSED APPROACH	**RW17L**	**IIU VORTAC 40:1)**				**ASC**		
(RNP 0.30-1.00)								

3. MISSED APPROACH									
	MAP:	**DA / DA**	**IIU VORTAC**				**ASC**		**3000**
				21. TOWER (21-020059)	**380615.81N/0853401.36W**	**1021 (5E)**	**1000**	**AC60**	**2100**
	ELEV:	**658/818**		**22. TERRAIN**	**380530.00N/0854251.00W**	**860 (900)**		**AS1500**	**2400**

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

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
LOUISVILLE, KY	**ELEVATION: 501** AIRPORT NAME: **LOUISVILLE INTL-STANDIFORD FIELD**	**RNAV**	**RNAV (RNP) Z RWY 17L, ORIG**	**ASO**

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

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 OPTN:	CAT 1
		CAT 3

5. APPROACH & RUNWAY LIGHTING		**ALS**
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:
CONTINUED.

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ALANB

STATE: IN **COUNTRY:** US

LATITUDE/LONGITUDE: 381739.62N/0855515.52W

TYPE: WP, RADAR

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17R			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: IAP, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/26/2012

DEVELOPED BY: **DATE:** 08/05/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF AIRPORT MGR

QUALITY CHECKED 9

FAA FORM 8260-2 / AUG 2009

RADIO FIX AND HOLDING DATA RECORD

NAME: CFBCB **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 381558.92N/0854927.15W **TYPE:** CNF

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17R			KSDF	LOUISVILLE	KY (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 11/14/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF APT MGR

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFBCJ **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 381627.20N/0854852.20W **TYPE:** CNF

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 11/14/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF APT MGR

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFBFD **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 381708.30N/0854257.41W **TYPE:** CNF

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 11/14/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF APT MGR

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFBFF **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 381740.55N/0854307.59W **TYPE:** CNF

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 11/14/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF APT MGR

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CHUWE **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 382118.54N/0853625.02W **TYPE:** WP, RADAR

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: IAP, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 08/05/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF AIRPORT MGR

QUALITY CHECKED 9

RADIO FIX AND HOLDING DATA RECORD

NAME: CIKCA **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 381840.32N/0855020.52W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17R			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 08/05/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF AIRPORT MGR

QUALITY 9 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: COBLR **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 381222.09N/0855154.62W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17R			KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/13/2012 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF/SDF
OTHER:

QUALITY CHECKED 9

RADIO FIX AND HOLDING DATA RECORD

NAME: JUMIP **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 381951.51N/0854349.07W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 08/05/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF AIRPORT MGR

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KAEDN **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 381459.68N/0853829.99W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17R			KSDF	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 06/10/2011 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF APP CON/ATCT
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: STYKR **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 381753.66N/0853931.88W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17R			KSDF	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
MOVED 10.12 FT SOUTH
UPDATED LAT LONG

DEVELOPED BY: **DATE:** 09/29/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF APP CON/ATCT
OTHER:

QUALITY 9 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WOTED **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 381848.84N/0854939.03W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 08/16/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF AIRPORT MGR

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YUNDV **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 381517.14N/0855251.95W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17R			KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/13/2012 **OFFICE:** AJV-352 **NAME:** MICHAEL CURRAN

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF/SDF
OTHER:

QUALITY 9 CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: LOUISVILLE VORTAC **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 380612.47N/0853438.77W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LOUISVILLE	IIU	VORTAC	H							45000

FIX RESTRICTIONS:
SPECIAL RNAV (GPS) Y RWY 17L, KSDF, LOUISVILLE, KY
VOR UNUSABLE 285 - 093 BELOW 10000.

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE	IIU	VORTAC	120.00	300.00	R	1		3000	6000	4	5
2	SE		WP	120.00	300.00	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (21-000719)	380853.00N/0852942.00W	1089	5D
1	310	TOWER (21-000115)	381135.00N/0853114.00W	1229	2C
2	200	TOWER (21-000719)	380853.00N/0852942.00W	1089	5D
2	310	TOWER (21-000115)	381135.00N/0853114.00W	1229	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 17L	KSDF	LOUISVILLE	KY (US)
2	RNAV (GPS) Y RWY 17L	KSDF	LOUISVILLE	KY (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLUES			KALN	ALTON/ST LOUIS	IL (US)
DP	BLUES			KBLV	BELLEVILLE	IL (US)
DP	BLUES			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	DAWNN			KIND	INDIANAPOLIS	IN (US)
DP	FOYTT (RNAV)			KIND	INDIANAPOLIS	IN (US)
DP	BLUEGRASS			KCVG	COVINGTON	KY (US)
DP	CHCLL (RNAV)			KCVG	COVINGTON	KY (US)
DP	CINCINNATI			KCVG	COVINGTON	KY (US)
DP	DERBY CITY			KSDF	LOUISVILLE	KY (US)
DP	BLUES			KSTL	ST LOUIS	MO (US)
DP	BLUES			KSUS	ST LOUIS	MO (US)
DP	CHATANOOGA			KCHA	CHATTANOOGA	TN (US)
DP	KNOXVILLE			KTYS	KNOXVILLE	TN (US)
DP	TITAN			KBNA	NASHVILLE	TN (US)
EN ROUTE	J112					(US)
EN ROUTE	J39					(US)
EN ROUTE	J526					(US)
EN ROUTE	J78					(US)
EN ROUTE	J8					(US)
EN ROUTE	J89					(US)
EN ROUTE	J99					(US)
EN ROUTE	T213					(US)
EN ROUTE	V171					(US)
EN ROUTE	V310					(US)
EN ROUTE	V4					(US)
EN ROUTE	V5					(US)
EN ROUTE	V51					(US)
EN ROUTE	V512					(US)
EN ROUTE	V513					(US)
EN ROUTE	V53					(US)
IAP	BLUES			KALN	ALTON/ST LOUIS	IL (US)
IAP	LOC/DME RWY 30			KDVK	DANVILLE	KY (US)
IAP	VOR-A			KEKX	ELIZABETHTOWN	KY (US)
IAP	RNAV (GPS) RWY 18			KFTK	FORT KNOX	KY (US)
IAP	RNAV (GPS) RWY 24			KLOU	LOUISVILLE	KY (US)
IAP	VOR RWY 24		1	KLOU	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 17L		1	KSDF	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 17R			KSDF	LOUISVILLE	KY (US)

INFO ONLY

QUALITY CHECKED

IAP	ILS OR LOC RWY 35L		KSDF	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 35R		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT II, III)		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (CAT II, III)		KSDF	LOUISVILLE	KY (US)
IAP	LOC RWY 29		KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 17L	2	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17R	2	KSDF	LOUISVILLE	KY (US)
STAR	DECEE		KIND	INDIANAPOLIS	IN (US)
STAR	SARGO (RNAV)		KCVG	COVINGTON	KY (US)
STAR	CLEGG		KLEX	LEXINGTON	KY (US)
STAR	CHERI		KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)		KSDF	LOUISVILLE	KY (US)
STAR	DARBY		KSDF	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)		KSDF	LOUISVILLE	KY (US)
STAR	FRIZN (RNAV)		KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)		KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)		KSDF	LOUISVILLE	KY (US)
STAR	REDSTONE		KSDF	LOUISVILLE	KY (US)
STAR	GENUS		KLUK	CINCINNATI	OH (US)
STAR	ZABER		KBKL	CLEVELAND	OH (US)
STAR	ZABER		KCGF	CLEVELAND	OH (US)
STAR	ZABER		KCLE	CLEVELAND	OH (US)
STAR	GAILL (RNAV)		KCMH	COLUMBUS	OH (US)
STAR	ZABER		K1G1	ELYRIA	OH (US)
STAR	ZABER		KLPR	LORAIN/ELYRIA	OH (US)
STAR	ZABER		K1G5	MEDINA	OH (US)
STAR	ZABER		K7G8	MIDDLEFIELD	OH (US)
STAR	ZABER		K2G1	PAINESVILLE	OH (US)
STAR	ZABER		KLNN	WILLOUGHBY	OH (US)
STAR	GUITR		KBNA	NASHVILLE	TN (US)
STAR	HEHAW		KBNA	NASHVILLE	TN (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 10/22/2009

REASON FOR REVISION:
UPDATED HOLDING OBSTACLE DATA ID'S.
ADDED PRECIPITOUS TERRAIN STATEMENT.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/20/2009 **OFFICE:** AVN-120 **NAME:** JON DENTON

APPROVED BY: **DATE:** 08/11/2009 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF APP CON/ATCT
OTHER:

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: RACRR **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 382239.71N/0854747.64W **TYPE:** WP, RADAR, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LOUISVILLE	I-PKI	LOC/DME		347.91	344.91	13.31	13.32		4000	4900

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
I-PKI DME COORDINATES: 380946.88N / 0854326.86W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 17L	1		KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)
STAR	FRIZN (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
MOVED FIX 1.16 NM NORTH
ADDED FAC 1 DIST FROM FAC NM TO FACILITY 1
CHANGED FAC 1 DME DISTANCE FROM 12.16 TO 13.31
REMOVED FAC 2
REMOVED REMARKS REFERENCING DRWT AND HOW FIX WAS ESTABLISHED
UPDATED FIX USE FORMAT
ADDED STAR TO REQ CHARTING

INFO ONLY

DEVELOPED BY: **DATE:** 06/22/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF AIRPORT MGR

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: SLGRR **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 381705.39N/0854552.95W **TYPE:** WP, RADAR, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LOUISVILLE	I-PKI	LOC/DME		347.91	344.91	7.55	7.55		2500	4900

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
I-PKI DME COORDINATES: 380946.88N / 0854326.86W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 17L	1		KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35R			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
REMOVED FAC 2
ADDED DIST FROM NM TO FAC 1
UPDATED FAC 1 DME DISTANCE FROM 7.45 TO 7.55
UPDATED FIX USE
UPDATED FIX LAT LONG-MOVED 608.79FT NORTH

INFO ONLY

DEVELOPED BY: **DATE:** 07/07/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF AIRPORT MGR

QUALITY CHECKED 9

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: THUND **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 382604.54N/0854858.05W **TYPE:** WP, RADAR, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	LOUISVILLE	I-PKI	LOC/DME		347.91	344.91	16.85	16.85		5000	6000
2	NABB	ABB	VORTAC	L	221.60	222.60	12.55	12.55		5000	6000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-PKI	LOC/DME	R-348	17	5000	6000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
I-PKI DME COORDINATES: 380946.88N / 0854326.86W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 17L	1, 2		KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17L			KSDF	LOUISVILLE	KY (US)
STAR	FRIZN (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
UPDATED FIX LOCATION/COORDINATES UPDATED: MOVED 1.55 NM NORTH
CHANGED FAC 1 DISTANCES FROM 15.30 NM TO 16.85 NM
CHANGED FAC 2 T/M BEARING FROM 217.01/216.01 TO 222.60/221.60
CHANGED FAC 2 DISTANCES FROM 13.44 TO 12.55
REMOVED FAC 3
CHANGED ESV FROM 348/16/5000-6000 TO 348/17/5000-6000
UPDATED FIX USE
REMOVED REMARK REFERENCING DISPLACED THRESHOLD
ADDED STAR TO REQ CHARTING

INFO ONLY

DEVELOPED BY: **DATE:** 06/22/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (CHRISTOPHER COX)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF AIRPORT MGR

QUALITY CHECKED 9

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **LOUISVILLE** STATE: **KY**

AIRPORT NAME: **LOUISVILLE INTL-STANDIFORD FIELD** ID: **KSDF**

PROCEDURE: **RNAV (RNP) Z RWY 17L** AMDT: **ORIG**

DOCKET#: **NOT REQUIRED**
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **2.98**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **164.89**
4. High Terrain in **FINAL** segment containing 1000' point **519**
5. Distance from **THLD** to 1500' point **4.55**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.20**
7. True Course of **FINAL** segment containing 1500' point **164.89**
8. High Terrain in **FINAL** segment containing 1500' point **519**
9. Threshold Coordinates (if straight-in) ... **381111.14N / 0854351.76W**
10. ARP Coordinates ..... **381026.71N / 0854411.40W**
11. Runway Approach End and distance furthest from ARP ..... RWY **35L**
    Distance **1.12** NM
12. FAF Coordinates ..... **381705.39N / 0854552.95W**

REMARKS: Approach/Drawing attached.

THRESHOLD IS DISPLACED: ACTUAL THLD IS 381114.28N-0854352.83W, 500.8 FT MSL

US Department of Transportation
Federal Aviation Administration

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:
LOUISVILLE, KY
LOUISVILLE INTL-STANDIFORD FIELD (KSDF)
RNAV (RNP) Z RWY 17L

2. Waiver Required and Applicable Standard:

Memo dated 02/06/12 establishes the minimum segment length for PBN procedures as 2 times RNP value or 1 NM, whichever is less. The segment length from CIKCA to WOTED is 0.56 NM and the minimum calculated length for this TF segment is 1 NM, making this segment length less than required by the memo.

3. Reason for Waiver *(Justification for nonstandard treatment)*:

Procedure design requires the use of shared fixes and the same radius fix from YUNDV to CIKCA for both runways which necessitated a short TF segment to RWY 17L.

4. Equivalent Level of Safety Provided:

1. Authorization required for this procedure.
2. The procedure will be validated in the simulator and by Flight Check to meet flyability requirements.
3. The intermediate was satisfactorily evaluated for obstacles based on RNP value of 1.00.

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:

N/A-RNAV procedure

6. Coordination With User Organizations *(Specify)*:
AJV-352

7. SUBMITTED BY

DATE:	Office Identification:	Title:	Signature:
	AJV-35	**MANAGER, TERMINAL PRODUCTS GROUP**	**GREGORY YAMAMOTO**

8. CONTINUATION
Comments:

9. AFS ACTION		
		Approved
		Disapproved
		Not Required

Comments:		
Date:	Routing Symbol:	Signature:

US Department of Transportation
Federal Aviation Administration

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:
LOUISVILLE, KY
LOUISVILLE INTL-STANDIFORD FIELD (KSDF)
RNAV (RNP) Z RWY 17L

2. Waiver Required and Applicable Standard:

FAAO 8260.52 Para 2.4. Design instrument approach procedure segments to provide descent at the standard gradient. FAAO 8260.54A Para 2.6. The optimum descent gradient in the intermediate segment is 150 FT/NM, maximum is 318 FT/NM.

3. Reason for Waiver *(Justification for nonstandard treatment)*:

The descent gradient from STYKR to JUMIP is 325 FT per NM. The proponent's design request preclude movement of fixes to allow descent gradients in all segments to meet criteria.

4. Equivalent Level of Safety Provided:

1. Authorization required for this procedure.
2. Previous segment is a straight level TF segment and all other segments meet descent gradient criteria.
3. The procedure will be validated in the simulator and by Flight Check to meet flyability requirements.

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:
N/A-RNAV procedure

6. Coordination With User Organizations *(Specify)*:
AJV-352

7. SUBMITTED BY

DATE:	Office Identification:	Title:	Signature:
	AJV-35	**MANAGER, TERMINAL PRODUCTS GROUP**	**GREGORY YAMAMOTO**

FAA FORM 8260 - 1 / July 2003 (computer generated)

8. CONTINUATION
Comments:

9. AFS ACTION		
		Approved
		Disapproved
		Not Required

Comments:		
Date:	Routing Symbol:	Signature: