Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 06/25/2012	Task #: 2012062530361501001	Request #: 20120625303615
Procedure: RNAV (RNP) Z RWY 17 R AMDT 0-A		Airport ID: KSDF	Airport: LOUISVILLE INTL-STANDIFORD FIELD		Reimbursable #:
City: LOUISVILLE	ST: KY	GPS #:		Estimated Chart Date: 01/10/2013	FICO #:
Fac ID: RNAV	Fac. Type: RNP	Specialist: CHRISTOPHER COX			

Procedure Review

P2

	Rec'd	Rel'd	Full Name	Comments
Lead:	06/25/2012	09/18/2012	JAMES DUBOIS	
QA:	09/18/2012	09/27/2012	STEVEN SZUKALA	
Liaison:	09/27/2012		Spurlin	REQUEST POSSIBLE TABLE TOP REVIEW

Procedure Comments:

Remark Type: INFORMATION

pkg/.f2

LOUISVILLE, KY LOUISVILLE INTL-STANDIFORD FIELD (KSDF) RNAV (RNP) Z RWY 17R, ORIG-A ENROUTE-NO FC: 11.27.12 PUB: 1.10.13

ATTACHED FORMS: 8260-3; 8260-10; 8260-9.

CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036 / 405.954.3636.

New

LOUISVILLE, KENTUCKY

AL-239 (FAA)

FIG

APP CRS	Rwy ldg	10000
168°	THRE	486
	Apt Elev	501

RNAV (RNP) Z RWY 17R

LOUISVILLE INTL-STANDIFORD FIELD (SDF)

For uncompensated Baro-VNAV systems, procedure NA below -14°C (7°F) or above 54°C (130°F). RF required. GPS required. For inoperative MALSR, increase RNP 0.30 all Cats visibility to 1¼ miles. Simultaneous approach authorized with Rwy 17L, except for arrivals at KAEDN, ALANB, and COBLR. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

MALSR

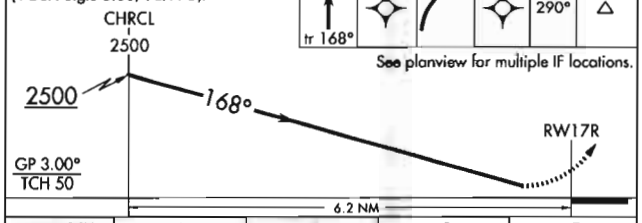
MISSED APPROACH: Climb to 3000 on track 168° to TEYUD right turn to JIPAD and on track 290° to NADDI and hold.

ATIS	LOUISVILLE APP CON	LOUISVILLE TOWER	GND CON	CLNC DEL
118.725	132.075 327.0 (EAST) 123.675 327.0 (WEST)	124.2 257.8	121.7 348.6	126.1 275.8

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 75).

3000	TEYUD		JIPAD	NADDI
tr 168°			tr 290°	

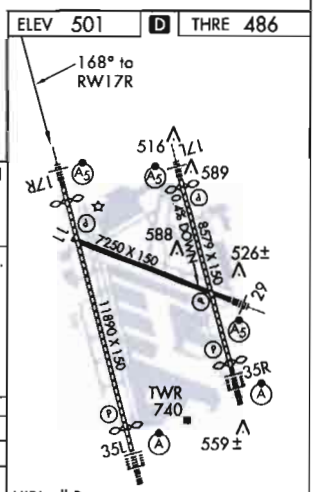
See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.30 DA	872/41 386 (400-¾)			

AUTHORIZATION REQUIRED

ELEV 501 | D | THRE 486

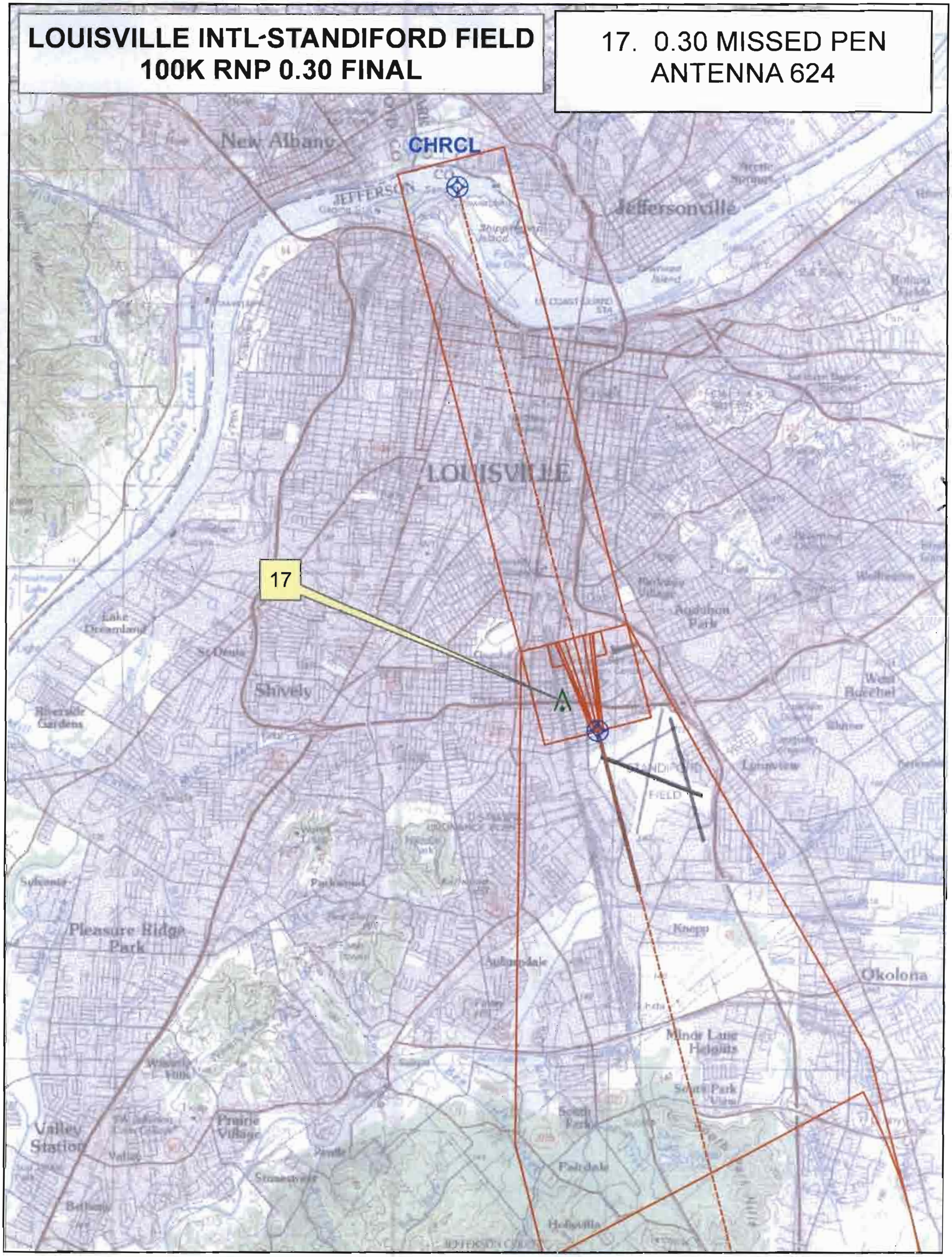


HIRL all Rwys
TDZ/CL Rwys 17L, 17R, 35L and 35R

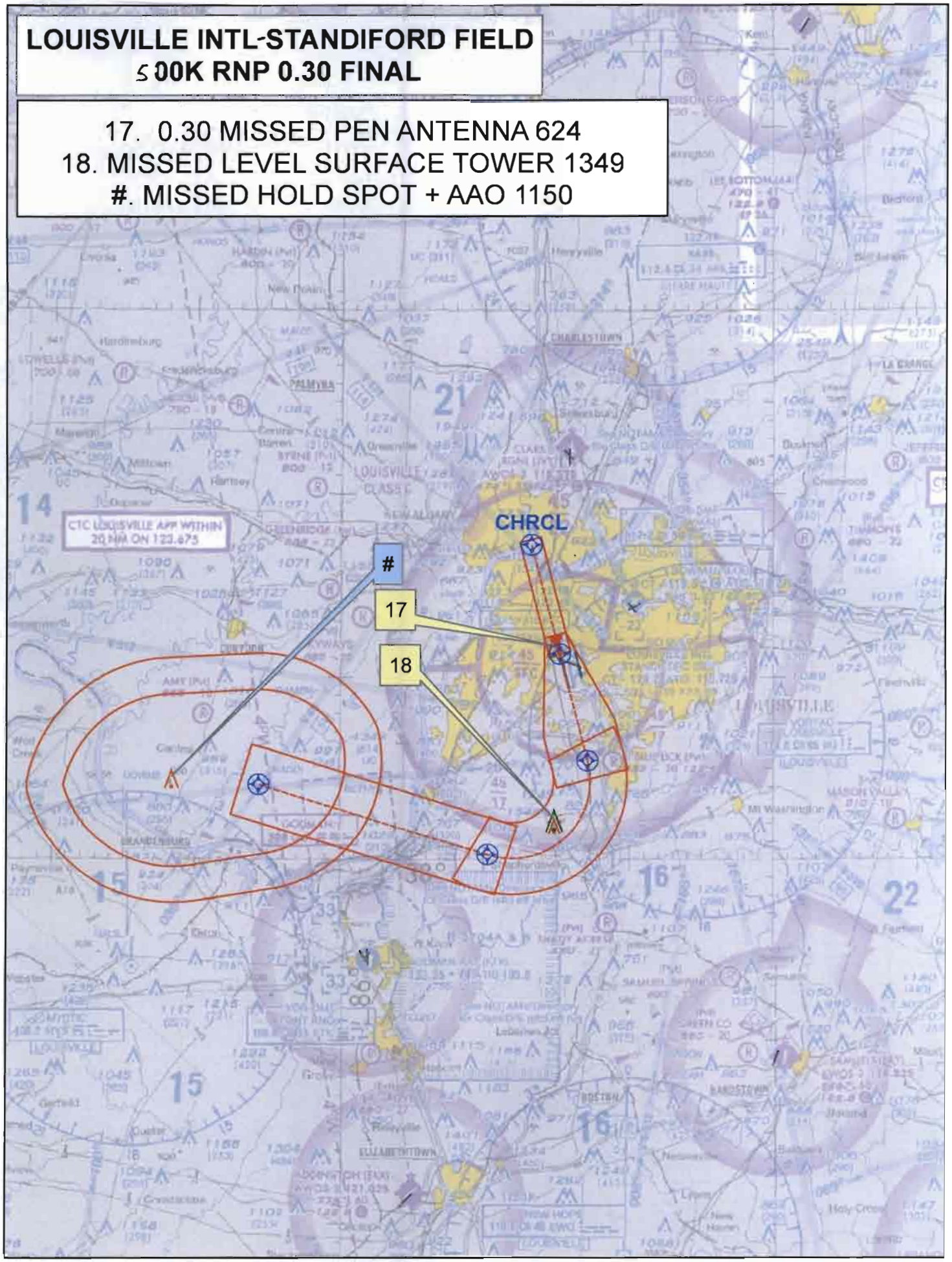
LOUISVILLE, KENTUCKY
Orig-A FIG

LOUISVILLE INTL-STANDIFORD FIELD (SDF)
38°10'N-85°44'W RNAV (RNP) Z RWY 17R

RNAV (RNP) Z RWY 17R ORIG-A Flight Inspection Map



RNAV (RNP) Z RWY 17R ORIG-A Flight Inspection Map



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
SPYRS (IF)	BLGRS (TF) (FB) (RNP 0.50)	168.37 / 3.49	3000
BLGRS	CHRCL (TF) (FB) (RNP 0.50)	168.38 / 2.28	2500
KAEDN (IF)	STYKR (TF) (FB) (RNP 1.00)	347.34 / 3.01	5000
STYKR	WONEM (RF) (FB) (RNP 1.00)	(2.81 NM RADIUS CCW (CFBCC))/3.78	3900
WONEM	ANEZO (TF) (FB) (RNP 1.00)	270.18 / .84	3700
(SEE FORM 8260-10)			

MISSED APPROACH

RNP: DA

CLIMB TO 3000 ON TRACK 168.40 TO TEYUD RIGHT TURN TO JIPAD AND ON TRACK 290.31 TO NADDI AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT CHRCL
3. FAC: 168.39 FAF: ____ DIST FAF TO MAP: ____ THLD: ____
4. MIN. ALT: CHRCL 2500
5. DIST TO THLD FROM OM: 6.17 MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2500 GS ALT AT: CHRCL 2500 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 49.7# 34:1 IS NOT CLEAR
8. MSA FROM: RW17R 3600

ADDITIONAL FLIGHT DATA:
HOLD W, LT, 083.89 INBOUND.
ROUTE TYPE: A,H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
DISTANCE TO THLD FROM 386 HATH: 1.06 NM.
CHART MANDATORY 5000 AT STYKR.
CHART MANDATORY 4000 AT YUNDV.
CHART LOC RWY 17L
#TCH 535.2 MSL (DO NOT CHART)
CHART MINIMUM 4000 AT COBLR.
CHART MINIMUM 5000 AT KAEDN.
CHART MINIMUM 4000 AT ALANB.

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 0.30 DA	872	4100	386	872	4100	386	872	4100	386	872	4100	386			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -14C (7F) OR ABOVE 54C (130F).
CHART NOTE: RF REQUIRED.
CHART NOTE: GPS REQUIRED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
(SEE FORM 8260-10)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 501 THRE: 486	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	RNAV	RNAV (RNP) Z RWY 17R, ORIG-A	AMDT: ORIG
				DATED 07/26/2012

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 **AMGR, SDF ATCT, SDF APP CON**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **CHRISTOPHER COX**	FIFO **AJV-35**	DATE: **08/30/2012**
APPROVED BY		
NAME: **DARRYEL ADAMS** **MANAGER**	FIFO **AJV-352**	DATE:

CHANGES:

1. REMOVED RNP 0.10
2. LOWERED RNP 0.30 DA/HATH/VIS FROM 981/495/6000 TO 872/386/4100.
3. CHANGE MALSR INOP NOTE FROM FOR INOPERATIVE MALSR, INCREASE RNP 0.10 ALL CATS VISIBILITY TO 1 1/8 MILES AND RNP 0.30 ALL CATS VISIBILITY TO 1 5/8 MILES TO FOR INOPERATIVE MALSR, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 1/4 MILES.
4. CHANGED HIGH TEMP LIMITS FROM 37C (98F) TO 54 C (130F)

REASONS:

1. ONLY A 47 FT DA IMPROVEMENT WAS POSSIBLE WITH LOWER RNP LEVEL 0.10: 50 FT REQUIRED
2. NEW CONTROLLING OBTACLE
3. REMOVED RNP 0.10 AND LOWERED DA/HATH OF RNP 0.30
4. UTILIZED AFS HIGH TEMP CALCULATOR DATED 5/16/2012

QUALITY CHECKED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ANEZO	CHRCL (RF) (FB) (RNP 1.00)	(2.27 NM RADIUS CCW (CFBCF))/4.03	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	CHRCL (RF) (FB) (RNP 1.00)	(2.25 NM RADIUS CW (CFBCD))/3.53	2500
CHRCL (FAF)	RW17R (MAP) (TF) (FO)	168.39 / 6.17	
RW17R (MAP)	TEYUD (TF) (FB) (RNP 1.00)	168.40 / 6.03	
TEYUD	JIPAD (RF) (FB) (RNP 1.00)	(4.30 NM RADIUS CW (CFBCG)) / 9.15	
JIPAD	NADDI (TF) (FO) (RNP 1.00)	290.31 / 13.14	3000

NOTES, (CONT.):
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 1/4 MILES.
CHART PLANVIEW NOTE AT YUNDV: MAX 220 KIAS.
CHART PLANVIEW NOTE AT STYKR: MAX 220 KIAS.
CHART PLANVIEW NOTE AT ANEZO: MAX 200 KIAS.
CHART PLANVIEW NOTE AT CIKCA: MAX 200 KIAS.
CHART PLANVIEW NOTE ADJACENT TO ALANB: RADAR REQUIRED.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 17L, EXCEPT FOR ARRIVALS AT KAEDN, ALANB, AND COBLR.
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

CHART PLANVIEW NOTE AT SPYRS: (RNP 0.50).

QUALITY CHECKED

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 CONTROL

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 PACKET - 424-18 - RNAV (RNP)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ALANB K50    W     N38173962W085551552                      W0044     NAR           ALANB
        SUSAEAENRT   ANEZO K50    W     N38195410W085441263                      W0045     NAR           ANEZO
        SUSAEAENRT   BLGRS K50    C     N38191628W085473524                      W0045     NAR           BLGRS
        SUSAEAENRT   CFBCB K50    W     N38155892W085492715                      W0044     NAR           CNF(CFBCB)
        SUSAEAENRT   CFBCC K50    W     N38170818W085425791                      W0045     NAR           CNF(CFBCC)
        SUSAEAENRT   CFBCD K50    W     N38162955W085493725                      W0044     NAR           CNF(CFBCD)
        SUSAEAENRT   CFBCF K50    W     N38173801W085440406                      W0045     NAR           CNF(CFBCF)
        SUSAEAENRT   CFBCG K50    W     N38040929W085481358                      W0044     NAR           CNF(CFBCG)
        SUSAEAENRT   CHRCL K50    C     N38170367W085465136                      W0045     NAR           CHRCL
        SUSAEAENRT   CIKCA K50    W     N38184032W085502052                      W0044     NAR           CIKCA
        SUSAEAENRT   COBLR K50    W     N38122209W085515462                      W0044     NAR           COBLR
        SUSAEAENRT   JIPAD K50    W     N38000273W085495086                      W0044     NAR           JIPAD
        SUSAEAENRT   KAEDN K50    W     N38145968W085382999                      W0046     NAR           KAEDN
        SUSAEAENRT   NADDI K50    C   L N38035650W086054390                      W0042     NAR           NADDI
        SUSAEAENRT   SPYRS K50    C     N38223930W085484251                      W0045     NAR           SPYRS
        SUSAEAENRT   STYKR K50    W     N38175366W085393188                      W0046     NAR           STYKR
        SUSAEAENRT   TEYUD K50    W     N38051452W085425742                      W0045     NAR           TEYUD
        SUSAEAENRT   WONEM K50    W     N38195660W085430845                      W0045     NAR           WONEM
        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 KSDFK5FH17RZ AALANB 010ALANBK5EA0E  B    IF                                  + 04000     18000                A FS
        SUSAP KSDFK5FH17RZ AALANB 020CIKCAK5EA0E    010TF                                   + 03600          200             A-FS
        SUSAP KSDFK5FH17RZ AALANB 030CHRCLK5EA0EE  R010RF       0022500783    16840035    + 02500                CFBCD K5EAA FS
        SUSAP KSDFK5FH17RZ ACOBLR 010COBLRK5EA0E  B    IF                                  + 04000     18000                A FS
        SUSAP KSDFK5FH17RZ ACOBLR 020YUNDVK5EA0E    010TF                                    04000          220             A-FS
        SUSAP KSDFK5FH17RZ ACOBLR 030CIKCAK5EA0E   R010RF       0027803485    07830044    + 03600          200    CFBCB K5EAA-FS
        SUSAP KSDFK5FH17RZ ACOBLR 040CHRCLK5EA0EE  R010RF       0022500783    16840035    + 02500                CFBCD K5EAA FS
        SUSAP KSDFK5FH17RZ AKAEDN 010KAEDNK5EA0E  B    IF                                  + 05000     18000                A FS
        SUSAP KSDFK5FH17RZ AKAEDN 020STYKRK5EA0E    010TF                                    05000          220             A-FS
        SUSAP KSDFK5FH17RZ AKAEDN 030WONEMK5EA0E   L010RF       0028103473    27020038    + 03900                CFBCC K5EAA FS
        SUSAP KSDFK5FH17RZ AKAEDN 040ANEZOK5EA0E    010TF                                   + 03700          200             A-FS
        SUSAP KSDFK5FH17RZ AKAEDN 050CHRCLK5EA0EE  L010RF       0022702702    16840040    + 02500                CFBCF K5EAA FS
        SUSAP KSDFK5FH17RZ ASPYRS 010SPYRSK5EA0E  B    IF                                                18000                A FS
```

CITY AND STATE	ELEVATION: 501 THRE: 486	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: **LOUISVILLE INTL-STANDIFORD FIELD**	**RNAV**	**RNAV (RNP) Z RWY 17R, ORIG-A**	AMDT: **ORIG**
				DATED: **7/26/2012**

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 KSDFK5FH17RZ ASPYRS 020BLGRSK5EA0E    051TF                                  + 03000                          A FS
SUSAP KSDFK5FH17RZ ASPYRS 030CHRCLK5EA0EE   051TF                                  + 02500                          A FS
SUSAP KSDFK5FH17RZ H      020CHRCLK5EA1E  F    IF                                  + 02500     18000       RW17R K5PGA FS
SUSAP KSDFK5FH17RZ H      020CHRCLK5EA2W                                                A031                          FS
SUSAP KSDFK5FH17RZ H      030RW17RK5PG0GY M 031TF                                     00535             -300          A FS
SUSAP KSDFK5FH17RZ H      040TEYUDK5EA0E M  010TF                                                                     A FS
SUSAP KSDFK5FH17RZ H      050JIPADK5EA0E   R010RF       0043001684    29030092                                CFBCG K5EAA FS
SUSAP KSDFK5FH17RZ H      060NADDIK5EA0EY   010TF                                  + 03000                          A FS
SUSAP KSDFK5FH17RZ H      070NADDIK5EA0EE  L   HM                     08390040    + 03000                          A FS
```

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSDFK5GRW17R   0118901684 N38110506W085445293-0200    +0114700486085050150IISNU1
```

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSDFK5SRW17RK5PG                0   18018003625                                                                          M
```

CITY AND STATE	ELEVATION: 501 THRE: 486	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	RNAV	RNAV (RNP) Z RWY 17R, ORIG-A	AMDT: ORIG
				DATED: 7/26/2012

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	AB 200
	ALANB	CHRCL	030		RF	R	FB	1.0		003.5	AA 02500	
	COBLR	COBLR	010		IF		FB				AA 04000	
	COBLR	YUNDV	020		TF		FB	1.0			AT 04000	AB 220
	COBLR	CIKCA	030		RF	R	FB	1.0		004.4	AA 03600	AB 200
	COBLR	CHRCL	040		RF	R	FB	1.0		003.5	AA 02500	
	KAEDN	KAEDN	010		IF		FB				AA 05000	
	KAEDN	STYKR	020		TF		FB	1.0			AT 05000	AB 220
	KAEDN	WONEM	030		RF	L	FB	1.0		003.8	AA 03900	
	KAEDN	ANEZO	040		TF		FB	1.0			AA 03700	AB 200
	KAEDN	CHRCL	050		RF	L	FB	1.0		004.0	AA 02500	
	SPYRS	SPYRS	010		IF		FB					
	SPYRS	BLGRS	020		TF		FB	0.5			AA 03000	
	SPYRS	CHRCL	030		TF		FB	0.5			AA 02500	
		CHRCL	020	FAF	IF		FB				AA 02500	
		RW17R	030	MAP	TF		FO	0.3			AT 00535	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	TEYUD	040		TF		FB	1.0				
	JIPAD	050		RF	R	FB	1.0		009.2		
	NADDI	060		TF		FO	1.0			AA 03000	
	NADDI	070		HM	L	FO		083.9(080.9T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ALANB	N381739.62	W0855515.52	N3817.660	W08555.259
	ANEZO	N381954.10	W0854412.63	N3819.902	W08544.211
	BLGRS	N381916.28	W0854735.24	N3819.271	W08547.587
	CFBCB	N381558.92	W0854927.15	N3815.982	W08549.453
	CFBCC	N381708.18	W0854257.91	N3817.136	W08542.965
	CFBCD	N381629.55	W0854937.25	N3816.493	W08549.621
	CFBCF	N381738.01	W0854404.06	N3817.634	W08544.068
	CFBCG	N380409.29	W0854813.58	N3804.155	W08548.226
	CHRCL	N381703.67	W0854651.36	N3817.061	W08546.856
	CIKCA	N381840.32	W0855020.52	N3818.672	W08550.342
	COBLR	N381222.09	W0855154.62	N3812.368	W08551.910
	JIPAD	N380002.73	W0854950.86	N3800.046	W08549.848
	KAEDN	N381459.68	W0853829.99	N3814.995	W08538.500
	NADDI	N380356.50	W0860543.90	N3803.942	W08605.732
	SPYRS	N382239.30	W0854842.51	N3822.655	W08548.709

CITY AND STATE	ELEVATION: 501 THRE: 486	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	RNAV	RNAV (RNP) Z RWY 17R, ORIG-A	AMDT: ORIG
				DATED: 7/26/2012

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:

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.

STYKR	N381753.66	W0853931.88	N3817.894	W08539.531
TEYUD	N380514.52	W0854257.42	N3805.242	W08542.957
WONEM	N381956.60	W0854308.45	N3819.943	W08543.141
YUNDV	N381517.14	W0855251.95	N3815.286	W08552.866
RW17R	N381105.06	W0854452.93	N3811.084	W08544.882

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW17R	00486	50

CITY AND STATE	ELEVATION: 501 THRE: 486	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: LOUISVILLE INTL-STANDIFORD FIELD	RNAV	RNAV (RNP) Z RWY 17R, ORIG-A	AMDT: ORIG
				DATED: 7/26/2012

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)	SPYRS	BLGRS	1. TOWER (18-002261)	382208.44N/0854947.57W	1944 (2C)	500	AC20 AT536	3000
			2. TERRAIN	382203.00N/0854945.00W	998 (1000)		AS1500	2500
INTERMEDIATE: (RNP 0.50)	BLGRS	CHRCL	3. AAO	381921.00N/0854842.00W	693 (4E)	500	AC98 AT1209	2500
STEPDOWN			4. TERRAIN	381751.00N/0854821.00W	486 (500)		AS1500	2000
INTERMEDIATE: (RNP 1.00)	KAEDN	STYKR	5. AAO	381718.00N/0853706.00W	821 (4E)	500	AC98 AT3581	5000
			6. TERRAIN	381713.00N/0853712.00W	621 (600)		AS1500	2100
INTERMEDIATE: (RNP 1.00)	STYKR	WONEM	5. AAO	381718.00N/0853706.00W	821 (4E)	500	AC98 AT2481	3900
STEPDOWN			7. TERRAIN	381830.00N/0853718.00W	614 (600)		AS1500	2100
INTERMEDIATE: (RNP 1.00)	WONEM	ANEZO	8. TOWER (18-000176)	381858.00N/0854208.00W	765 (5E)	500	AC125 DG2310	3700
STEPDOWN			9. TERRAIN	382012.00N/0854206.00W	531 (500)		AS1500	2000
INTERMEDIATE: (RNP 1.00)	ANEZO	CHRCL	10. AAO	382039.00N/0854236.00W	729 (4E)	500	DG1173 AC98	2500
STEPDOWN			11. TERRAIN	381756.00N/0854845.00W	610 (600)		AS1500	2100
INTERMEDIATE: (RNP 1.00)	ALANB	CIKCA	12. TOWER (18-000597)	382010.00N/0855140.00W	1289 (3D)	500	DG1761 AC50	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.		
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: RW17R

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (21-001039)	046/ 22.3	2549 (5D)	3600					

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

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SDF APP CON SDF TOWER IND ARTCC	N W S F A A A / C OTHER: ASOS	SOURCE: KSDF DISTANCE: HOURS REMOTE OPERATION:
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 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, 29, 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: 485.5
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 49.7
9. FINAL APPROACH COURSE AIMING	X RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: 1

ORDER 8260.52, PARAGRAPH 2.3; INSUFFICIENT SEGMENT LENGTH BETWEEN WONEM AND ANEZO (MIN IS 2.00 NM WITH RNP 1.00, ACUTAL IS 0.84NM)

PART D - PREPARED BY: CHRISTOPHER COX	DATE: 08/30/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-35

PART C - REMARKS:

ACTUAL HIGH TEMP: 54C (130F)

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

VDP NOT ESTABLISHED - PROCEDURE IS RNP.

THRESHOLD DISPLACED 850 FT.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ACT: -14C/7F

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

KSDF ASOS ON SERVICE A/24 HOUR OPERATION

WAIVER: FAAO 8260.52 PARA 2.3 INSUFFICIENT SEGMENT LENGTH BETWEEN WONEM AND ANEZO (MIN IS 2.00 NM WITH RNP 1.00, ACUTAL IS 0.84NM)

SEE ATTACHED AIRSPACE LETTER.

8260.52 TABLE 1-3 TAILWIND COMPONENT APPLIED TO ALL RF SEGMENTS EXCEPT STYKR TO WONEM WHERE 99TH PERCENTILE WINDS WERE APPLIED.

IAPA USED FOR PROCEDURE DEVELOPMENT.

RF TURN RADIUS/BANK ANGLE COMPUTATIONS:

CIKCA TO CHRCL, ALT: 3382.5, KIAS: 200, KTAS: 213.53, HAA: 2881.7, VKTW: 50, TR: 2.25NM, BA: 24.24D, DEG OF TRN: 90
CIKCA TO YUNDV, ALT: 4000, KIAS: 220, KTAS: 237.60, HAA: 3499.2, VKTW: 55.2, TR: 16873.00FT, BA: 24.22, DEG OF TRN: 89.88D
ANEZO TO CHRCL, ALT: 3781.54, KIAS: 200, KTAS: 215.13, HAA: 3280.74, VKTW: 52.81, TR: 13784FT, BA: 24.78, DEG OF TRN: 107.77D
STYKR TO WONEM, ALT: 5000, KIAS: 220, KTAS: 243.1, HAA: 4500, VKTW: 55.8, TR: 17058FT, BA: 24.77, DG OF TRN: 77.16

SPEED RESTRICTIONS:
AT YUNDV: 220 KIAS
AT CIKCA: 200 KIAS
AT STYKR: 220 KIAS
AT ANEZO: 200 KIAS

THRESHOLD DISPLACED 850 FT

AVG VEG 100 FT

SEE ATTACHED VEB SPREADSHEET

VGSI DATA: 3.00/75

TERPS, VOLUME 1, "VISUAL PORTION OF FINAL" PENETRATIONS:
34:1

QUALITY CHECKED

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	AC50 DG1761	3600
STEPDOWN			13. TERRAIN	382033.00N/0855118.00W	945 (900)		AS1500	2400
INTERMEDIATE: (RNP 1.00)	CIKCA	CHRCL	12. TOWER (18-000597)	382010.00N/0855140.00W	1289 (3D)	500	VEB111 DG550 AC50	2500
STEPDOWN			16. TERRAIN	382048.00N/0855003.00W	896 (900)		AS1500	2400
FINAL: RNP (0.30)	CHRCL	RW17R				ASC	MA83	872/386
MISSED APPROACH	DA	RW17R	17. ANT (KSDF0130)	381126.47N/0854522.43W	624 (1A)	ASC	AC3	
(RNP 0.30-1.00)								
MISSED APPROACH	RW17R	TEYUD				ASC		
(RNP 0.30-1.00)								
MISSED APPROACH	TEYUD	JIPAD				ASC		
(RNP 1.00)								
MISSED APPROACH	JIPAD	NADDI				ASC		
(RNP 1.00)								
3. MISSED APPROACH — MAP:	DA	NADDI				ASC		3000
			18. TOWER (21-000870)	380159.00N/0854516.00W	1349 (5E)	1000	AC60	2500
ELEV:	559		19. TERRAIN	375851.00N/0854903.00W	896 (900)		AS1500	2400

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:

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

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

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	N W S / F A A / A / C — OTHER:	SOURCE:
		DISTANCE:
		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.
541 POLE (KSDF0068) (20/3) 381124.08N/0854504.34W (3.48)
526 POLE (KSDF0065) (20/2) 381121.53N/0854455.41W (1.10)
516 POLE (KSDF0062) (20/3) 381118.29N/0854451.45W (2.77)
510 POLE (KSDF0061) (20/3) 38117.00N/0854450.54W (1.02)

495 ANT ON BLDG (KSDF0058) (20/3) 38112.10N/0854450.00W (0.44)

SPYRS TO BLGRS TO CHRCL 0.50 RNP TO LIMIT MIN LEG LENGTH RESTRICTION IF AIRCRAFT IS RADAR VECTORED TO SPYRS

RADAR VECOTRS TO SPYRS AND ALANB LIMITED TO 30 DEGREES EITHER SIDE OF RESPECTIVE COURSES.

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
MAX TURN ANGLE FOR DIGRR-CATEK

MINOR REVISION ACCOMPLISHED USING IPDS
RNP 0.30 FINAL APPROACH SEGMENT AND 0.30 MISSED APPROACH SECTIONS 1A AND 1B TERRAIN OFF