Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 12/23/2011	Task #: 2011122324791001001	Request #: 20111223247910
Procedure: RNAV (GPS) RWY 24 AMDT 2		Airport ID: KLOU	Airport: BOWMAN FIELD		Reimbursable #:
City: LOUISVILLE	ST: KY	GPS #:		Estimated Chart Date: 07/26/2012	FICO #:
Fac ID:	Fac. Type: LPV	Specialist: GEORGETTE BARNETT			

LPV

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	01/31/2012	02/29/2012	DONALD SMITH	
QA:	02/29/2012	03/04/2012	STEVEN SZUKALA	
Liaison:	03/04/2012		Terrell	

P1

Procedure Comments:

Remark Type: INFORMATION

Pkg 1 of 1

LOUISVILLE, KY BOWMAN FIELD (KLOU) RNAV (GPS) RWY 24, AMDT 2 (LPV) ENROUTE-NO FC: 6.12.12 PUB: 7.26.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): BNNUS, REV 3; (INFO ONLY) CAANT, ORIG; LOUISVILLE (IIU) VTAC, REV 9; NABB (ABB) VTAC, REV 16; NITDO, REV 2; NUNYA, REV 2; RUHEE, ORIG; TOADU, REV 2.

CONTACT: DON SMITH, AJV-352 LEAD, 405.954.1036:

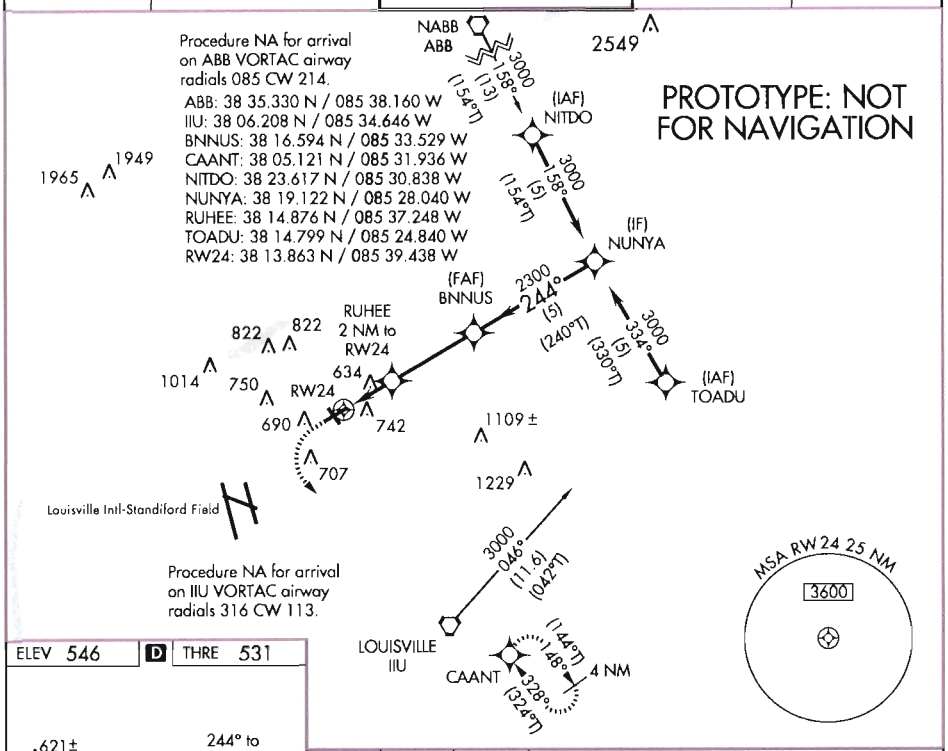
WAAS CH 58126 W24A	APP CRS 244°	Rwy ldg 3856 THRE 531 Apt Elev 546

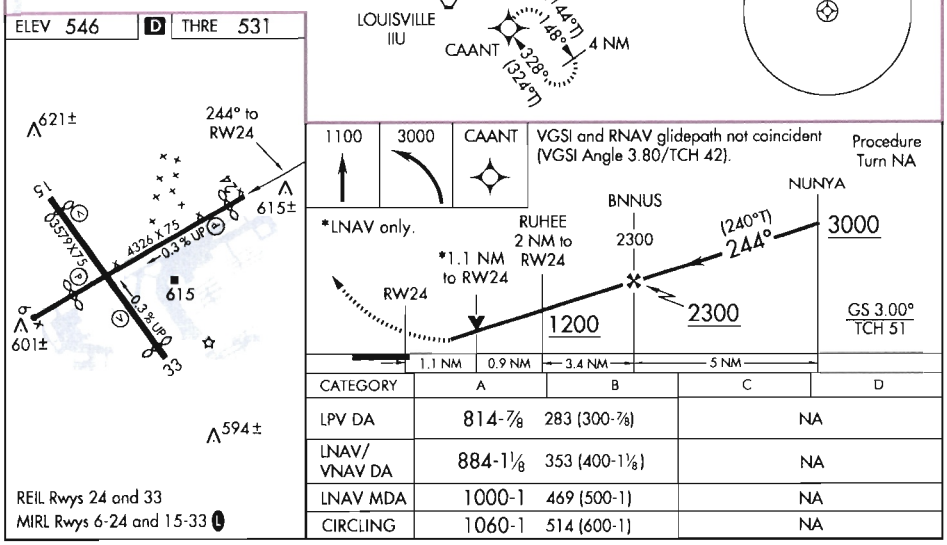
RNAV (GPS) RWY 24
LOUISVILLE/BOWMAN FIELD (LOU)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Louisville Intl-Standiford Field altimeter setting. Baro-VNAV and VDP NA when using Louisville-Standiford Field altimeter setting. When VGSI inop, Circling to Rwy 6 NA at night.

MISSED APPROACH: Climb to 1100 then climbing left turn to 3000 direct CAANT and hold.

ATIS	LOUISVILLE APP CON	BOWMAN TOWER *	GND CON	CLNC DEL
118.275	132.075 327.0	119.5 (CTAF) L 257.625	121.8	118.9





CATEGORY	A	B	C	D
LPV DA	814-⅞	283 (300-⅞)	NA	
LNAV/VNAV DA	884-1⅛	353 (400-1⅛)	NA	
LNAV MDA	1000-1	469 (500-1)	NA	
CIRCLING	1060-1	514 (600-1)	NA	

Airport ID:	KLOU
Airport Name:	BOWMAN FIELD
City:	LOUISVILLE
State	KY
Procedure ID:	RNAV (GPS) RWY 24
Amdt #:	AMDT 2
Scale	1: 500,000

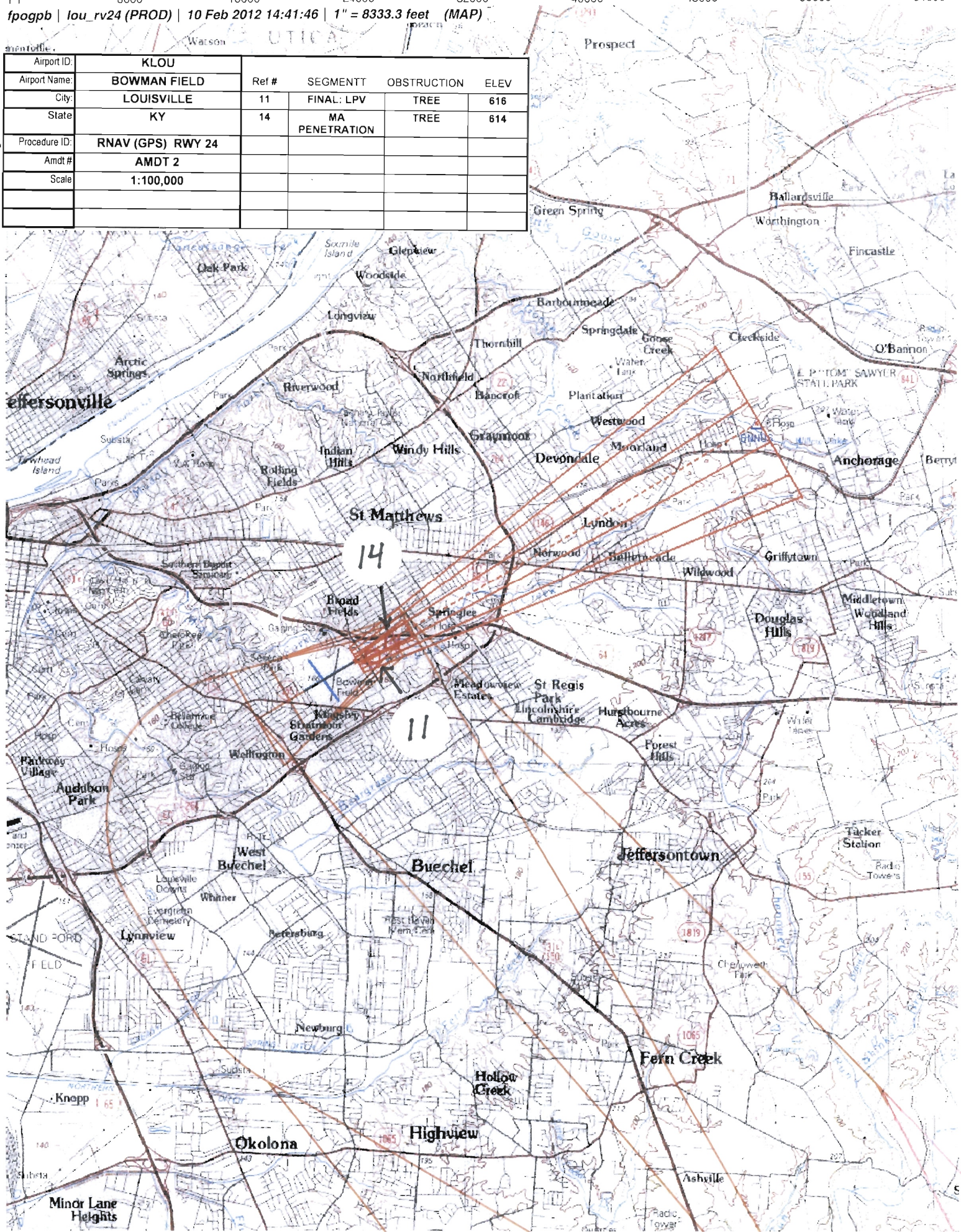
Ref #	SEGMENTT	OBSTRUCTION	ELEV
1	FEEDER	AAO	1014
3	FEEDER/INITIAL	TOWER	1409
6	INITIAL/INTERMEDIATE	TOWER	1195
8	INTERMEDIATE	AAO	1014
15	MA LVL SFC	TOWER	1021

NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpogpb | lou_rv24 (PROD) | 10 Feb 2012 14:41:46 | 1" = 8333.3 feet (MAP)

Airport ID:	KLOU				
Airport Name:	BOWMAN FIELD	Ref #	SEGMENTT	OBSTRUCTION	ELEV
City:	LOUISVILLE	11	FINAL: LPV	TREE	616
State	KY	14	MA PENETRATION	TREE	614
Procedure ID:	RNAV (GPS) RWY 24				
Amdt #	AMDT 2				
Scale	1:100,000				

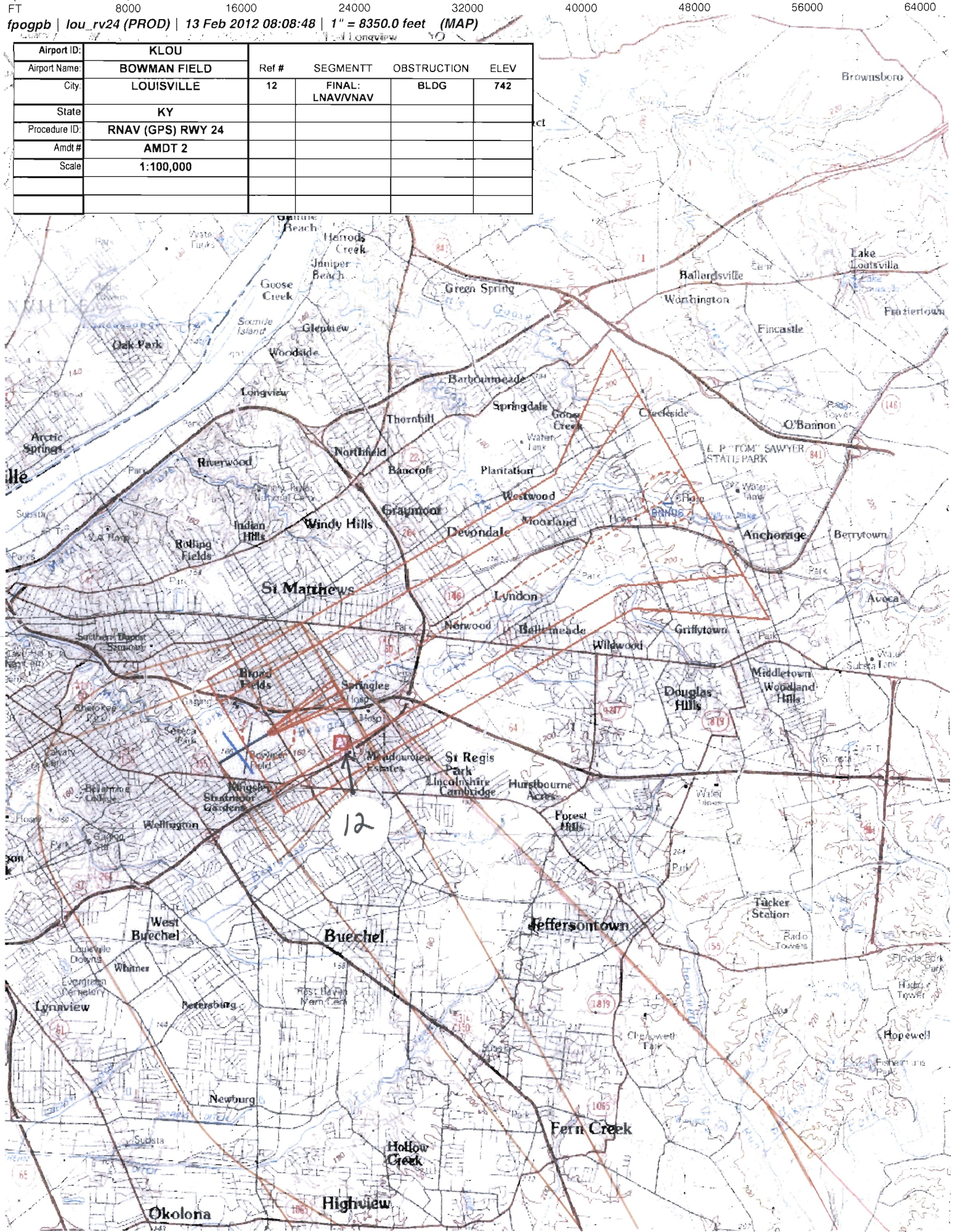


NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpogpb | lou_rv24 (PROD) | 13 Feb 2012 08:08:48 | 1" = 8350.0 feet (MAP)

Airport ID:	KLOU				
Airport Name:	BOWMAN FIELD	Ref #	SEGMENTT	OBSTRUCTION	ELEV
City:	LOUISVILLE	12	FINAL: LNAV/VNAV	BLDG	742
State	KY				
Procedure ID:	RNAV (GPS) RWY 24				
Amdt #	AMDT 2				
Scale	1:100,000				

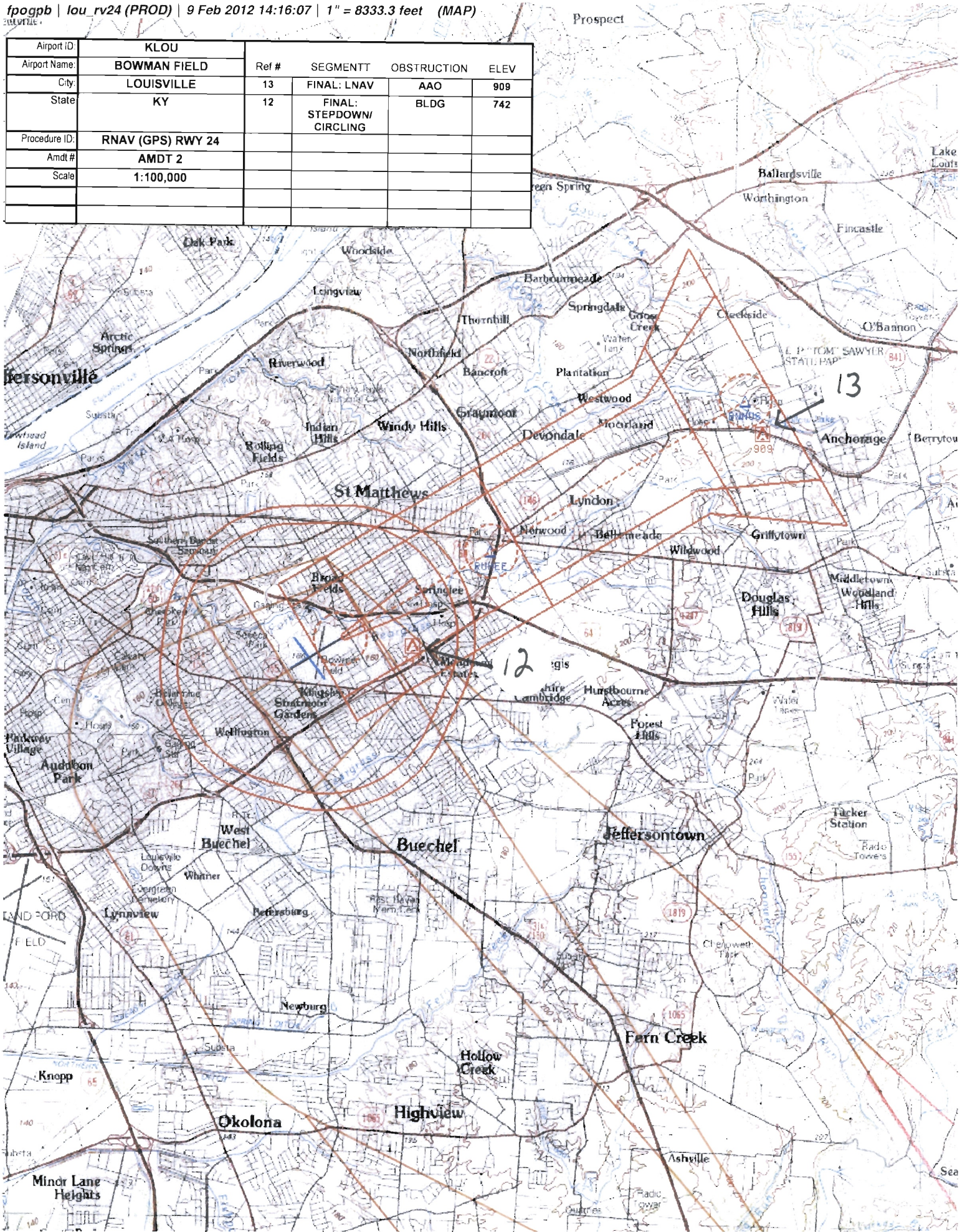


NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpogpb | lou_rv24 (PROD) | 9 Feb 2012 14:16:07 | 1" = 8333.3 feet (MAP)

Airport ID:	KLOU				
Airport Name:	BOWMAN FIELD	Ref #	SEGMENTT	OBSTRUCTION	ELEV
City:	LOUISVILLE	13	FINAL: LNAV	AAO	909
State	KY	12	FINAL: STEPDOWN/ CIRCLING	BLDG	742
Procedure ID:	RNAV (GPS) RWY 24				
Amdt #	AMDT 2				
Scale	1:100,000				



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

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ABB VORTAC	NITDO (FB)	157.80 / 13.04	3000
IIU VORTAC	TOADU (FB)	045.97 / 11.55	3000
TOADU (IAF)	NUNYA (FB)	333.75 / 5.00	3000
NITDO (IAF)	NUNYA (FB)	157.87 / 5.00	3000
NUNYA (IF)	BNNUS (FB)	243.72 / 5.00	2300
BNNUS (FAF)	RUHEE/2.00 NM TO RW24 (FB)	243.66 / 3.40	
(SEE FORM 8260-10)			

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW24

CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 3000 DIRECT CAANT AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT NUNYA
3. FAC: 243.66 FAF: BNNUS DIST FAF TO MAP: 5.40 THLD: 5.40
4. MIN. ALT: NUNYA 3000, BNNUS 2300, RUHEE/2.00 NM TO RW24 1200*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2300 GS ALT AT: BNNUS 2300 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 51.0 34:1 IS NOT CLEAR
8. MSA FROM: RW24 3600

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 327.67 INBOUND.
CHART FAS OBST: 742 BLDG 381342N/0853823W
DISTANCE TO THLD FROM 283 HATH: 0.73 NM.
CHART VDP AT 1.08 MILES TO RW24*
*LNAV ONLY.
WAAS CHANNEL # 58126
REFERENCE PATH ID: W24A
CHART: KSDF AIRPORT
LTP HAE: 128.5 M

MAG VAR: 4W EPOCH YEAR: 2010

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	814	7/8	283	814	7/8	283		NA			NA				
LNAV/VNAV DA	884	1 1/8	353	884	1 1/8	353		NA			NA				
LNAV MDA	1000	1	469	1000	1	469		NA			NA				
CIRCLING	1060	1	514	1060	1	514		NA			NA				

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
(SEE FORM 8260-10)

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 546 THRE: 531	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: BOWMAN FIELD	RNAV	RNAV (GPS) RWY 24, AMDT 2	AMDT: 1
				DATED 12/15/2011

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] ZID, SDF APP CON, LOU ATCT, AMGR.

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: GEORGETTE P. BARNETT	FIFO AJV-352	DATE: 02/08/2012
APPROVED BY		
NAME: DARRYEL ADAMS MANAGER	FIFO AJV-352	DATE:

CHANGES:

1. DELETED LP MINIMUMS, ADDED LPV AND LNAV/VNAV MINIMUMS.
2. CHANGED VGSI NONE COINCIDENT NOTE FROM DESCENT ANGLES TO RNAV GLIDEPATH.
3. MOVED BNNUS PFAF/FAF LOCATION 114.47 FT SOUTHWEST.
4. ADDED NOTE FOR CRITICAL HIGH TEMPERATURE.
5. CHANGED MISSED APPROACH CLIMB TO ALTITUDE FROM 1000 TO 1100.
6. ADDED VDP.
7. RAISED TCH FROM 45 FT TO 51 FT.

REASONS:

1. EASTERN FPT REQUEST AND REMOVAL OF OBSTACLE KLOUA008.
2. ADDED LPV MINIMUMS.
3. RE-CALCULATION OF PFAF/FAF LOCATION, TCH CHANGED FROM 45 FT TO 51 FT.
4. LNAV/VNAV MINIMUMS ADDED.
5. CLIMB TO ALTITUDE REACHED PRIOR TO END OF SECTION 1 FOR LPV.
6. CRITERIA, IAW 8260.19D, PARA 430.
7. CLEAR GQS PENETRATION, OBSTACLE KLOU0064.

QUALITY 2 CHECKED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RUHEE/2.00 NM TO RW24	RW24 (MAP) (FO)	243.62 / 2.00	
RW24 (MAP)	1100 MSL	243.62	1100
1100 MSL	CAANT (FO)		3000

NOTES, (CONT.):
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LOUISVILLE INTL-STANDIFORD FIELD ALTIMETER SETTING.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING LOUISVILLE INTL-STANDIFORD FIELD ALTIMETER SETTING.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ABB VORTAC AIRWAY RADIALS 085 CW 214.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON IIU VORTAC AIRWAY RADIALS 316 CW 113.
CHART NOTE: WHEN VGSI INOP, CIRCLING TO RWY 6 NA AT NIGHT.

QUALITY CHECKED 2

CITY AND STATE	ELEVATION: 546 THRE: 531 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	BOWMAN FIELD	RNAV	RNAV (GPS) RWY 24, AMDT 2	AMDT: 1
				DATED: 12/15/2011

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 2 CHECKED

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLOU
RUNWAY	RW24
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24A
LTP/FTP LATITUDE	381351.7845N
LTP/FTP LONGITUDE	0853926.2740W
LTP/FTP ELLIPSOIDAL HEIGHT	+01285
FPAP LATITUDE	381306.6300N
FPAP LONGITUDE	0854103.7900W
THRESHOLD CROSSING HEIGHT (TCH)	00051.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	1A0CABD1

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01618
FPAP ORTHOMETRIC HEIGHT	+01618

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 546 THRE: 531	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: BOWMAN FIELD	RNAV	RNAV (GPS) RWY 24, AMDT 2	AMDT: 1
				DATED: 12/15/2011

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 2 CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

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ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        ABB   K5011240VTLA N38351982W085380957    N38351982W085380957E0010007101     NARNABB
        SUSAD        IIU   K5011480VTH  N38061247W085343877    N38061247W085343877E0010007202     NARLOUISVILLE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BNNUS K50    W     N38163561W085333171                      W0046     NAR           BNNUS
        SUSAEAENRT   CAANT K50    W     N38050724W085315614                      W0046     NAR           CAANT
        SUSAEAENRT   NITDO K50    W     N38233699W085305027                      W0047     NAR           NITDO
        SUSAEAENRT   NUNYA K50    W     N38190733W085280239                      W0047     NAR           NUNYA
        SUSAEAENRT   RUHEE K50    W     N38145255W085371488                      W0046     NAR           RUHEE
        SUSAEAENRT   TOADU K50    W     N38144794W085245037                      W0047     NAR           TOADU

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLOUK5ALOU     0     043YHN38134080W085394940W004000546         1800018000C    MNAR    BOWMAN FIELD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLOUK5FR24   AABB   010ABB  K5D 0V       IF                                                18000                 A JS
        SUSAP KLOUK5FR24   AABB   020NITDOK5EA0E  A 020TF                    15780130    + 03000                             A JS
        SUSAP KLOUK5FR24   AABB   030NUNYAK5EA0EE B 010TF                    15790050    + 03000                             A JS
        SUSAP KLOUK5FR24   AIIU   010IIU  K5D 0V       IF                                                18000                 A JS
        SUSAP KLOUK5FR24   AIIU   020TOADUK5EA0E  A 020TF                    04600116    + 03000                             A JS
        SUSAP KLOUK5FR24   AIIU   030NUNYAK5EA0EE B 010TF                    33380050    + 03000                             A JS
        SUSAP KLOUK5FR24   R      010NUNYAK5EA0E  I    IF                                + 03000     18000                   A JS
        SUSAP KLOUK5FR24   R      020BNNUSK5EA1E  F 051TF                    24370050    + 02300                  RW24  K5PGA JS
        SUSAP KLOUK5FR24   R      020BNNUSK5EA2WALPV       ALNAV/VNAV ALNAV                                                    JS
        SUSAP KLOUK5FR24   R      021RUHEEK5EA0E S  031TF                    24370034    V 0120001219        -300            A JS
        SUSAP KLOUK5FR24   R      030RW24 K5PG0GY M 031TF                    24360020      00582             -300            A JS
        SUSAP KLOUK5FR24   R      040         0  M     CA                    2436        + 01100                             A JS
        SUSAP KLOUK5FR24   R      050CAANTK5EA0EY  L   DF                                + 03000                             A JS
        SUSAP KLOUK5FR24   R      060CAANTK5EA0EE  R   HM                    32770040    + 03000                             A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLOUK5GRW24    0043262436 N38135178W085392627+0300    +0128500531030751075R
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 546 THRE: 531	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: BOWMAN FIELD	RNAV	RNAV (GPS) RWY 24, AMDT 2	AMDT: 1
				DATED: 12/15/2011

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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```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLOUK5PR24   RW24 001 0000W24A0N3813517845W08539262740+012850300N3813066300W085410379001067515280000510F4005001A0CABD1
        SUSAP KLOUK5PR24   RW24 002E      +01618+01618LPV       58126
```

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLOUK5SRW24 K5PG               0   18018003625                                                                          M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 546 THRE: 531	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: BOWMAN FIELD	RNAV	RNAV (GPS) RWY 24, AMDT 2	AMDT: 1
				DATED: 12/15/2011

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 (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ABB	ABB	010		IF		FB					
	ABB	NITDO	020	IAF	TF		FB	2.0	157.8(153.8T)	013.0	AA 03000	
	ABB	NUNYA	030		TF		FB	1.0	157.9(153.9T)	005.0	AA 03000	
	IIU	IIU	010		IF		FB					
	IIU	TOADU	020	IAF	TF		FB	2.0	046.0(042.0T)	011.6	AA 03000	
	IIU	NUNYA	030		TF		FB	1.0	333.8(329.8T)	005.0	AA 03000	
		NUNYA	010	FACF	IF		FB				AA 03000	
		BNNUS	020	FAF	TF		FB	0.5	243.7(239.7T)	005.0	AA 02300	
		RUHEE	021	SDF	TF		FB	0.3	243.7(239.7T)	003.4	AA 01200 GS 01219	
		RW24	030	MAP	TF		FO	0.3	243.6(239.6T)	002.0	AT 00582	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		243.6(239.6T)		AA 01100	
	CAANT	050		DF	L	FO				AA 03000	
	CAANT	060		HM	R	FO		327.7(323.7T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ABB	N383519.82	W0853809.57	N3835.330	W08538.160
	IIU	N380612.47	W0853438.77	N3806.208	W08534.646
	BNNUS	N381635.61	W0853331.71	N3816.594	W08533.529
	CAANT	N380507.24	W0853156.14	N3805.121	W08531.936
	NITDO	N382336.99	W0853050.27	N3823.617	W08530.838
	NUNYA	N381907.33	W0852802.39	N3819.122	W08528.040
	RUHEE	N381452.55	W0853714.88	N3814.876	W08537.248
	TOADU	N381447.94	W0852450.37	N3814.799	W08524.840
	RW24	N381351.78	W0853926.27	N3813.863	W08539.438

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW24	00531	51

QUALITY CHECKED 1

CITY AND STATE	ELEVATION: 546 THRE: 531	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
LOUISVILLE, KY	AIRPORT NAME: **BOWMAN FIELD**	**RNAV**	**RNAV (GPS) RWY 24, AMDT 2**	AMDT: **1**
				DATED: **12/15/2011**

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.
FEEDER	ABB VORTAC	NITDO	1. AAO	382342.00N/0852830.00W	1014 (4E)	1000	AT986	3000
			2. TERRAIN	382527.00N/0852942.00W	775 (800)		AS1500	2300
FEEDER	IIU VORTAC	TOADU	3. TOWER (21-000111)	381541.00N/0852543.00W	1409 (4D)	1000	AT591	3000
			4. TERRAIN	381357.00N/0852236.00W	768 (800)		AS1500	2300
INITIAL	TOADU	NUNYA	3. TOWER (21-000111)	381541.00N/0852543.00W	1409 (4D)	1000	AT591	3000
			5. TERRAIN	381930.00N/0852733.00W	804 (800)		AS1500	2300
INITIAL	NITDO	NUNYA	6. TOWER (21-020108)	381928.19N/0853300.05W	1195 (1A)	1000	AT805	3000
			7. TERRAIN	382127.00N/0852730.00W	844 (800)		AS1500	2300
INTERMEDIATE	NUNYA	BNNUS	8. AAO	382106.00N/0852803.00W	1014 (4E)	500	AC98	1700
			9. TERRAIN	382106.00N/0852803.00W	814 (800)		AS1500	2300
INTERMEDIATE	NUNYA	BNNUS	6. TOWER (21-020108)	381928.19N/0853300.05W	1195 (1A)	500		1700
			10. TERRAIN	381912.00N/0852848.00W	804 (800)		AS1500	2300
FINAL: LPV	BNNUS	RW24	11. TREE (KLOUA010)	381354.61N/0853911.01W	616 (1A)	34:1	MA33	814/283
FINAL: LNAV/VNAV	BNNUS	RW24	12. BLDG (21-000161)	381342.00N/0853823.00W	742 (1A)	PDA		884/353
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	DA / DA / RW24	CAANT	14. TREE (KLOUA023)	381404.29N/0853853.35W	614 (1A)	ASC		3000
			15. TOWER (21-020059)	380615.81N/0853401.36W	1021 (5D)	1000		2100
ELEV:	612/742/900		16. TERRAIN	381030.00N/0853430.00W	742 (700)		AS1500	2200

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
CATEGORY A	1.3 NM	350	514	12. BLDG (21-000161)	381342.00N/0853823.00W	742 (1A)	300		1060
CATEGORY B	1.5 NM	450	514	12. BLDG (21-000161)	381342.00N/0853823.00W	742 (1A)	300		1060
CATEGORY C	1.7 NM	450							
CATEGORY D	2.3 NM	550							
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW24

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (21-001039)	043/ 17.4	2549 (5D)	3600					

QUALITY CHECKED

CITY AND STATE	ELEVATION: 546 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
LOUISVILLE, KY	BOWMAN FIELD	RNAV	RNAV (GPS) RWY 24, AMDT 2	ASO

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
ZID ARTCC LOU TOWER LOU FSS SDF APP CON	N W S F A A A / C	OTHER: ASOS	SOURCE: KLOU / KSDF DISTANCE: 0 / 4.72 HOURS REMOTE OPERATION: 24 / BACKUP
SATISFACTORY ON: X V H F X U H F H F	LOCATION: KLOU		ADJUSTMENT: 0 / 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 33 (PCL), 15 (PCL), 24 (PCL), 06 (PCL)
	X	REIL 33, 24
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-2L 24, 06 VASI-4L 33, 15
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	NPI-G 33, 15; -P 24, 06
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 530.9
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 51.0
9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD FT. FROM THRESHOLD
	X	ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: GEORGETTE P. BARNETT	DATE: 02/08/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

THRESHOLD DISPLACED 307.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

BLOCK 2.
LOCATION: KLOU.

KLOU AND KSDF ON SERVICE A.

VGSI DATA: 3.85/28.8

NO ADDITIONAL AIRSPACE REQUIRED.

51 FT TCH USED IN PROCEDURE BUILD TO CLEAR GQS PENETRATION:
565 TREE (KLOU0064)
381356.29N/0853915.75W (0.73)

LNAV/VNAV ISA DEVIATION: -30
CALCULATED HIGH TEMP EXCEEDS 54C. ACTUAL HIGH TEMP 147C (296F).
NO HISTORICAL DATA AVAILABLE FOR ACT.

LPV SURFACE: 34:1

LNAV/VNAV SURFACE: 23.4:1.

RASS PRESSURE PATTERNS SAME
KLOU 546 KSDF 501
RA = 0

TAA NOT DEVELOPED, NOT REQUESTED.

OBSTACLE #8 AND 9 FOR INTERMEDIATE SEGMENT FROM INITIAL BEGINNING AT TOADU.

OBSTACLE #6 AND 10 FOR INTERMEDIATE SEGMENT FROM INITIAL BEGINNING AT NITDO.

TERPS, VOLUME 1, "VISUAL PORTION OF FINAL" RW24 PENETRATIONS:
34:1
565 TREE (KLOU0064) 381356.29N/0853915.75W (11.91)
570 TREE (KLOUA012) 381359.08N/0853914.07W (9.31)
611 TREE (KLOUA018) 381402.80N/0853856.33W (8.82)
552 TREE (KLOU0039) 381353.64N/0853917.79W (7.02)
625 TREE (KLOUA026) 381412.39N/0853855.16W (6.02)
565 TREE (KLOU0065) 381356.50N/0853911.90W (3.80)
614 TREE (KLOUA023) 381404.29N/0853853.35W (3.55)

TERPS, VOLUME 1, "VISUAL PORTION OF FINAL" RW6 PENETRATIONS:
20:1
601 TREE (KLOU0071) 381329.38N/0854012.75W (9.43)

FPT NOTIFIED OF VISUAL PENETRATIONS.

MISSED APPROACH SEGMENT EVALUATED USING IPDS.

QUALITY 2 CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL: LNAV	BNNUS	RUHEE/2.00 NM TO	13. AAO	381608.00N/0853316.00W	909 (2C)	250	DG41	1200
		RW24						
FINAL: LNAV STEPDOWN	RUHEE/2.00 NM TO	RW24	12. BLDG (21-000161)	381342.00N/0853823.00W	742 (1A)	250		1000
	RW24							

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:

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

QUALITY CHECKED

CITY AND STATE	ELEVATION: 546 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
LOUISVILLE, KY	BOWMAN FIELD	RNAV	RNAV (GPS) RWY 24, AMDT 2	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:

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

PART C - REMARKS:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BNNUS **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 381635.61N/0853331.71W **TYPE:** WP

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

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

REMARKS:
USED 8260.54A L-V PFAF FORMULA TO CALCULATE FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV(GPS) RWY 24			KLOU	LOUISVILLE	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. MOVED FIX 114.47 FEET SOUTHWEST.

DEVELOPED BY: **DATE:** 02/07/2012 **OFFICE:** AJV-352 **NAME:** GEORGETTE BARNETT

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: CAANT **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 380507.24N/0853156.14W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

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		WP	147.67	327.67	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (21-001730)	375814.00N/0852907.00W	1107	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV(GPS) RWY 24		1	KLOU	LOUISVILLE	KY (US)
IAP	RNAV(GPS) RWY 33		1	KLOU	LOUISVILLE	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/22/2010 **OFFICE:** AVN-110 **NAME:** PETER GETZ (DAVID SAUER)

APPROVED BY: **DATE:** 10/18/2011 **OFFICE:** AVN-110 **NAME:** DONALD SMITH

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

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	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			KEYE	INDIANAPOLIS	IN (US)
DP	DAWNN			KHFY	INDIANAPOLIS	IN (US)
DP	DAWNN			KIND	INDIANAPOLIS	IN (US)
DP	FOYTT (RNAV)			KIND	INDIANAPOLIS	IN (US)
DP	DAWNN			KMQJ	INDIANAPOLIS	IN (US)
DP	DAWNN			KTYQ	INDIANAPOLIS	IN (US)
DP	DAWNN			KUMP	INDIANAPOLIS	IN (US)
DP	DAWNN			KGEZ	SHELBYVILLE	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)

QUALITY CHECKED 2

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)
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 17L	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:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: NABB VORTAC **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 383519.82N/0853809.57W **TYPE:**

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	NABB	ABB	VORTAC	L							17500

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

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	E	ABB	VORTAC	068.00	248.00	R	1		2600	6000	4	5
2	SW	ABB	VORTAC	217.29	037.29	L	1		2500	6000	4	5
3	N	ABB	VORTAC	019.00	199.00	R	1		2500	6000	4	5
4	W		WP	252.49	072.49	L		7	6000	14000	10	14
5	N		WP	019.00	199.00	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	383748.00N/0853815.00W	1057	4E
2	200	AAO	383748.00N/0853815.00W	1057	4E
3	200	TOWER (18-001393)	384244.00N/0854112.00W	1148	5D
4	265	TOWER (18-000780)	383353.00N/0854919.00W	1339	5D
5	200	TOWER (18-001393)	384244.00N/0854112.00W	1148	5D

REASON FOR NONSTANDARD HOLDING:
PAT 4 ATC REQUEST.
PAT 2 ATC REQUEST.

HOLDING RESTRICTIONS:
PAT 4 CHART 265K ICON
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DAWNN			KEYE	INDIANAPOLIS	IN (US)
DP	DAWNN			KHFY	INDIANAPOLIS	IN (US)
DP	DAWNN			KIND	INDIANAPOLIS	IN (US)
DP	DAWNN			KMQJ	INDIANAPOLIS	IN (US)
DP	DAWNN			KTYQ	INDIANAPOLIS	IN (US)
DP	DAWNN			KUMP	INDIANAPOLIS	IN (US)
DP	DAWNN			KGEZ	SHELBYVILLE	IN (US)
DP	BLUEGRASS			KCVG	COVINGTON	KY (US)
DP	ROCKT (RNAV)			KCVG	COVINGTON	KY (US)
EN ROUTE	V44					(US)
EN ROUTE	V47					(US)
EN ROUTE	V49					(US)
EN ROUTE	V51					(US)
IAP	RNAV (GPS) RWY 31			KBFR	BEDFORD	IN (US)
IAP	ILS OR LOC RWY 18		1	KJVY	JEFFERSONVILLE	IN (US)
IAP	NDB RWY 18		1	KJVY	JEFFERSONVILLE	IN (US)
IAP	VOR RWY 18		3	KJVY	JEFFERSONVILLE	IN (US)
IAP	VOR/DME RWY 3		2	KIMS	MADISON	IN (US)
IAP	RNAV (GPS) RWY 5			KOVO	NORTH VERNON	IN (US)
IAP	LOC/NDB RWY 5			KSER	SEYMOUR	IN (US)
IAP	NDB RWY 5			KSER	SEYMOUR	IN (US)
IAP	RNAV (GPS) RWY 23			KSER	SEYMOUR	IN (US)
IAP	RNAV (GPS) RWY 32			KSER	SEYMOUR	IN (US)
IAP	RNAV (GPS) RWY 24			KLOU	LOUISVILLE	KY (US)
IAP	VOR RWY 24			KLOU	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 17R			KSDF	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 35R		3	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (CAT II)		3	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (CAT III)		3	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (SA CAT I)		3	KSDF	LOUISVILLE	KY (US)
IAP	LOC RWY 29			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 17L			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 17R			KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 35R		5	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35R		5	KSDF	LOUISVILLE	KY (US)
STAR	DECEE			KEYE	INDIANAPOLIS	IN (US)
STAR	DECEE			KIND	INDIANAPOLIS	IN (US)

QUALITY CHECKED 2

STAR	JAKIE (RNAV)		KCVG	COVINGTON	KY (US)
STAR	MOSEY		KCVG	COVINGTON	KY (US)
STAR	SARGO (RNAV)	4	KCVG	COVINGTON	KY (US)
STAR	CLEGG		KLEX	LEXINGTON	KY (US)
STAR	REDSTONE		KSDF	LOUISVILLE	KY (US)
STAR	ZABER		KBKL	CLEVELAND	OH (US)
STAR	ZABER		KCGF	CLEVELAND	OH (US)
STAR	ZABRE		KCLE	CLEVELAND	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)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 16 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
1. DELETED FAC 1 MRA 2300.

DEVELOPED BY: **DATE:** 07/20/2010 **OFFICE:** AVN-110 **NAME:** PETER GETZ (DAVID SAUER)

APPROVED BY: **DATE:** 10/18/2011 **OFFICE:** AVN-110 **NAME:** DONALD SMITH

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: NITDO **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 382336.99N/0853050.27W **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(GPS) RWY 24			KLOU	LOUISVILLE	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
1. MOVED FIX 2215.75 FEET EAST/NORTHEAST.
2. DELETED FAC 1, NUNYA.

DEVELOPED BY: **DATE:** 07/22/2010 **OFFICE:** AVN-110 **NAME:** PETER GETZ (DAVID SAUER)

APPROVED BY: **DATE:** 10/18/2011 **OFFICE:** AVN-110 **NAME:** DONALD SMITH

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: NUNYA **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 381907.33N/0852802.39W **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(GPS) RWY 24.			KLOU	LOUISVILLE	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
1. DELETED FAC 1, KLOU R24.
2. DELETED REMARK, KLOU R24 DISPLACED THRESHOLD COORDINATES: 381351.78N/0853926.27W. (DISPLACED 307 FEET).

DEVELOPED BY: **DATE:** 07/20/2010 **OFFICE:** AVN-110 **NAME:** PETER GETZ (DAVID SAUER)

APPROVED BY: **DATE:** 10/18/2011 **OFFICE:** AVN-110 **NAME:** DONALD SMITH

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: RUHEE **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 381452.55N/0853714.88W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV(GPS) RWY 24			KLOU	LOUISVILLE	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 07/22/2010 **OFFICE:** AVN-110 **NAME:** PETER GETZ (DAVID SAUER)

APPROVED BY: **DATE:** 10/18/2011 **OFFICE:** AVN-110 **NAME:** DONALD SMITH

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: TOADU **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 381447.94N/0852450.37W **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(GPS) RWY 24			KLOU	LOUISVILLE	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
1. DELETED FAC 1, NUNYA.

DEVELOPED BY: **DATE:** 07/22/2010 **OFFICE:** AVN-110 **NAME:** PETER GETZ (DAVID SAUER)

APPROVED BY: **DATE:** 10/18/2011 **OFFICE:** AVN-110 **NAME:** DONALD SMITH

SIGNATURE:

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

QUALITY 2 CHECKED