

Flight Procedures Cover Page	Task Action: FLIGHT CHECK	Task Type: IAP	Estimated Chart Date: 07/11/2024	APWS Task ID: DCC7673BDCA24031961A26235F8D5F17	APWS Project ID: CB608286F1A24EDAA494952352BD26CB
Procedure: ILS OR LOC RWY 35L AMDT 5		Enroute: NO	Specialist: Dumar, Ralph		Agreement Number:
Airport ID: KSDF			Airport City: LOUISVILLE		State: KY
Facility ID: RLI	Facility Type: ILS	Flight Inspection Remark Type: New FC Slot			
Procedure Comments: KSDF AND NAVAID ACTIVE DATA USED. FAA FORM 8260-1: MULTIPLE INTERMEDIATE FIXES APPROVAL LETTER: MANDATORY ALTITUDES AT INTERMEDIATE FIXES AABEY AND DPAUW REMARKS: NEW INTERMEDIATE SEGMENTS ADDED TO APPROACH. CONTACT RAKE MCGRAW (405) 954-8711 QUALITY 33 CHECKED QUALITY 20 CHECKED					

1. FLIGHT PROCEDURE IDENTIFICATION:

Louisville, KY
Louisville Muhammad Ali Intl
ILS or LOC Rwy 35L

2. WAIVER REQUIRED AND APPLICABLE STANDARD:

FAAO Order 8260.19l, paragraph 8-6-7b(3)(b). Procedures with multiple Intermediate fixes only apply to RNAV (RNP) AR procedures.

3. REASON FOR WAIVER (JUSTIFICATION FOR NONSTANDARD TREATMENT):

Adding RNAV Intermediate segments to the ILS or LOC RWY 35L procedure which include TF turns that mirror the RNAV (RNP) Z RWY 35L RF segments. Implementation of this design allows for greater procedure flexibility and usage within ATC and industry by not restricting aircraft without RF capability. The addition of the multiple intermediate fixes are developed to meet current criteria requirements of FAAO 8260.58C Appendix C, PBN Transitions to ILS Final.

4. EQUIVALENT LEVEL OF SAFETY PROVIDED:

Industry indicates that the procedure can be easily managed without increased actions by the flight crew. Fixes on the RNAV Segment are charted on the planview with associated altitudes and restrictions. RNAV 1-GPS Required is published in the equipment requirement notes and pilots must select the desired transition. Therefore, the pilots will see only the WPs that affect their route. Pilots will be able to correlate the Plan View, Profile View and RNAV route so as to understand their route and altitude constraints. A profile note will be added to the chart stating "See planview for multiple IF locations". IAW 8260.58C Appendix C, the capture fix will be established and aligned with the FAC and common to all intermediate segments.

5. ALTERNATIVE ACTIONS DEEMED NOT FEASIBLE:

6. COORDINATION WITH USER ORGANIZATIONS (SPECIFY):

The KSDF Approach was developed with input from ZID, SDF, Southwest Airlines, United Airlines, American Airlines, United Parcel Service (UPS), and the National Business Aviation Association (NBAA).

7. SUBMITTED BY:

DATE	OFFICE IDENTIFICATION	TITLE
	AJV-A422	MGR

SIGNATURE

Digitally signed by

ALLAN WILL

Mar 26, 2024

8. AFS ACTIONS:

☐ APPROVED ☐ DISAPPROVED ☐ NOT REQUIRED

COMMENTS:

DATE	ROUTING SYMBOL	SIGNATURE
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Federal Aviation Administration

Memorandum

Date:

To: Chris Hope, Manager, Flight Technologies and Procedures Division (AFS-400)

From: Jeff Chester, District Support Manager for Airspace and Procedures (TCID)

Subject: Approval Request: Charting Mandatory Altitudes for Louisville Muhammad Ali Intl, Louisville, KY (KSDF) – ILS or LOC Rwy 35L, ILS Rwy 35L (SA CAT I), ILS Rwy 35L (CAT II-III)

KSDF ILS or LOC Rwy 35L, ILS Rwy 35L (SA CAT I), ILS Rwy 35L (CAT II-III): AABEY and DPAUW Mandatory Altitude.

KSDF TRACON requests AFS approval to chart mandatory altitude restrictions at the following fixes; AABEY and DPAUW at 6000ft MSL for ILS or LOC RWY 35L, ILS Rwy 35L (SA CAT I), ILS Rwy 35L (CAT II-III) instrument approach procedure for Louisville Muhammad Ali International Airport (KSDF).

Currently, FAAO 8260.19I paragraph 8-6-10n (1) requires Flight Standards approval from the Flight Technologies and Procedures Division to chart a mandatory altitude on the intermediate segment of an instrument approach procedure.

Therefore, Louisville TRACON requests to chart mandatory restrictions at AABEY and DPAUW ILS or LOC RWY 35L, ILS Rwy 35L (SA CAT I), ILS Rwy 35L (CAT II-III). This is an ATC operational request to ensure vertical separation between aircraft on the approach and other TRACON traffic.

Sincerely,

FIG

ILS or LOC RWY 35L
LOUISVILLE MUHAMMAD ALI INTL (SDF)

MISSED APPROACH: Climb to 1000 then climbing left turn to 4000 on heading 240° and IIIU VORTAC R-279 to DAMEN INT/ IIIU 24.5° DME and hold

D-ATIS	LOUISVILLE APP CON	LOUISVILLE TOWER	GND CON	CLNC DEL	CPDLC
118.725	132.075 327.0	124.2 257.8	121.7 348.6	126.1 275.8	



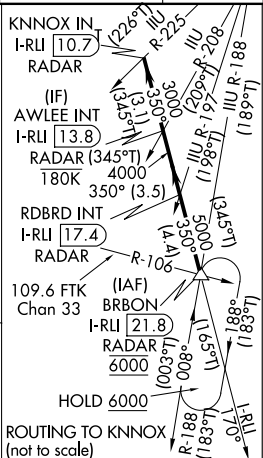
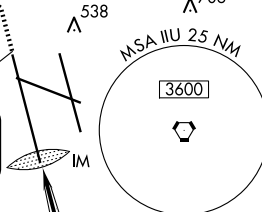
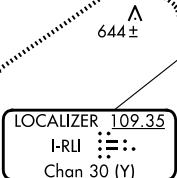
38°10'N-85°44'W

FIG

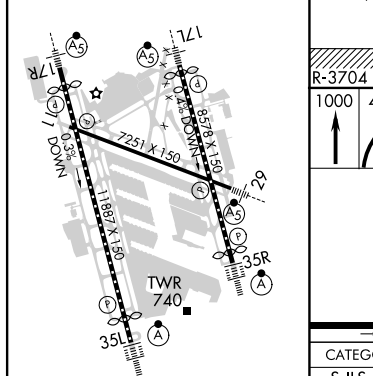
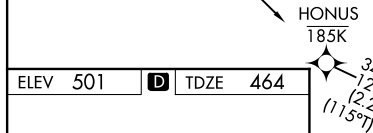
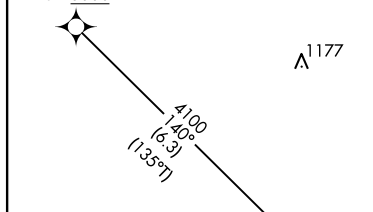
LOUISVILLE MUHAMMAD ALI INTL (SDF)

MISSED APPROACH: Climb to 1000 then climbing left turn to 4000 on heading 240° and IIIU VORTAC R-279 to DAMEN INT/IIIU 24.5° DME and hold.

T Simultaneous approach authorized. Requires specific OPSPEC, MSPEC, or LOA approval.

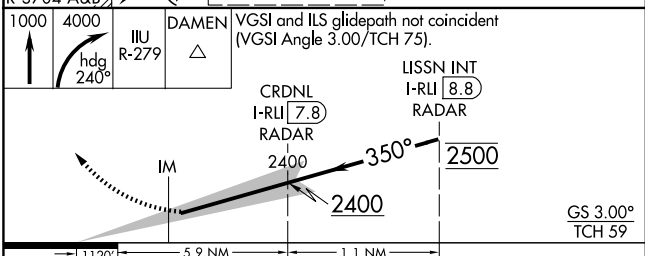
MISSED APCH FIX

PROTOTYPE-NOT
FOR NAVIGATION



SEE INSET FOR
ROUTING TO KNOX

Arrival holding not required
at BRBON on V5-513 northbound.



CATEGORY	A	B	C	D
S-ILS 35L	RA 154/14 150 DA 614			

SA CATEGORY I ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

LOUISVILLE MUHAMMAD ALI INTL (SDF)

ILS RWY 35L (SA CAT I)

LOC/DME I-RLI

109.35

Chan 30 (Y)

APP CRS

350°

Rwy Idg

10000

TDZE

464

Apt Elev

501

OLD

ILS or LOC RWY 35L

LOUISVILLE MUHAMMAD ALI INTL (SDF)

DME required for LOC only. RADAR required.

ALSF-2

MISSED APPROACH: Climb to 4000 on heading 350°, expect RADAR vectors.

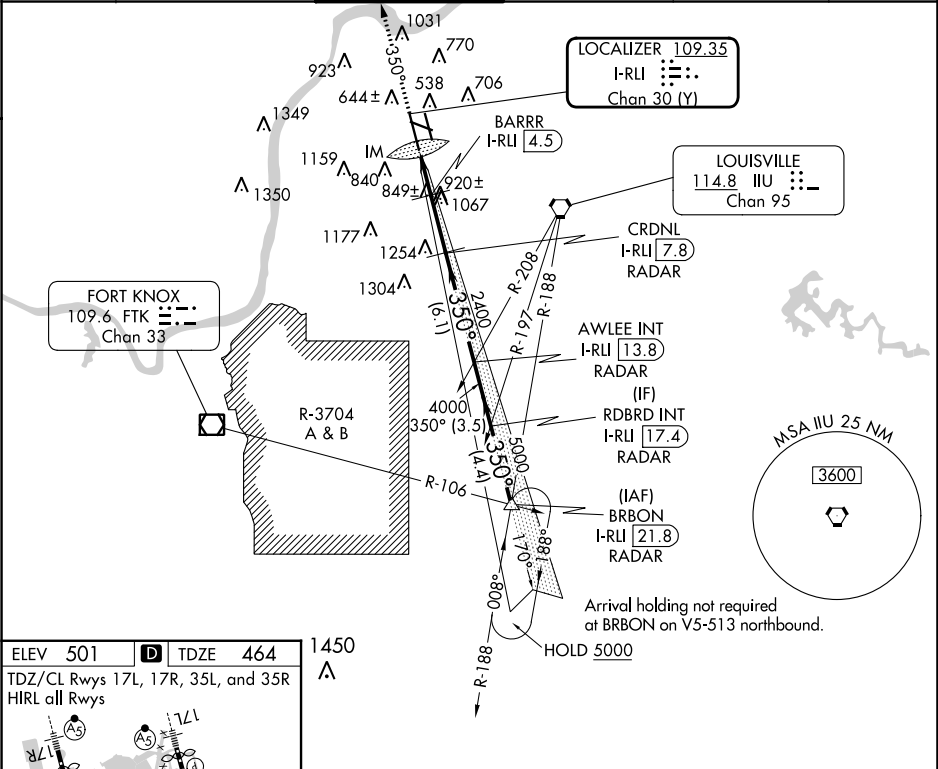
▼

Circling Rwy 11 NA at night. Simultaneous approach authorized.

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For inop ALS, increase S-LOC 35L Cat C/D visibility to 1¾ SM.

D-ATIS 118.725	LOUISVILLE APP CON 132.075 327.0	LOUISVILLE TOWER 124.2 257.8	GND CON 121.7 348.6	CLNC DEL 126.1 275.8	CPDLC
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ELEV 501

D

TDZE 464

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

4000

hdg 350°

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

CRDNL I-RLI 7.8

AWLEE INT I-RLI 13.8

RDBRD INT I-RLI 17.4

BARRR I-RLI 4.5

IM I-RLI 3.6

I-RLI 1.8

2400

1380

2400

5000

4000

350°

GS 3.00° TCH 59

0.1

1.7

0.9 NM

3.2 NM

6.1 NM

3.5 NM

D

CATEGORY	B			
S-ILS 35L	664/18 200 (200-½)			
S-LOC 35L	1100/24 636 (700-½)	1100-1⅓ 636 (700-1⅓)		
FAF to MAP 5.9 NM	1100-1 599 (600-1)	1140-1 639 (700-1)	1160-1⅓ 659 (700-1⅓)	1400-3 899 (900-3)

CIRCLING

1100-1 599 (600-1)

1140-1 639 (700-1)

1160-1⅓ 659 (700-1⅓)

1400-3 899 (900-3)

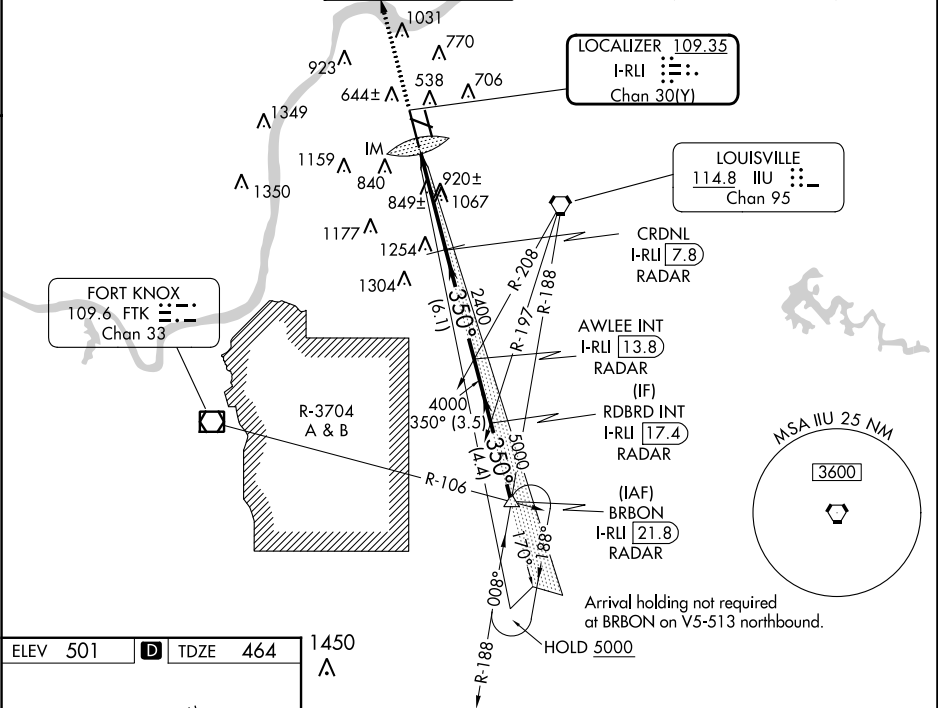
RADAR required.

Simultaneous approach authorized. Requires specific OPSPEC, MSPEC, or LOA approval and use of HUD to DH.

ALSF-2

MISSED APPROACH: Climb to 4000 on heading 350°, expect RADAR vectors.

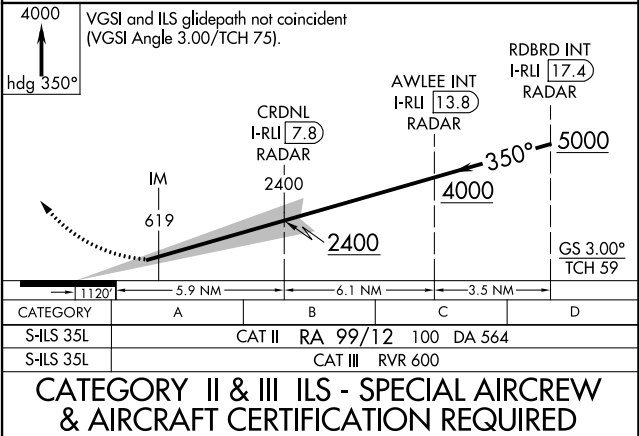
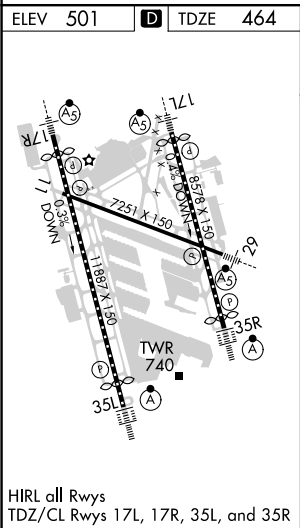
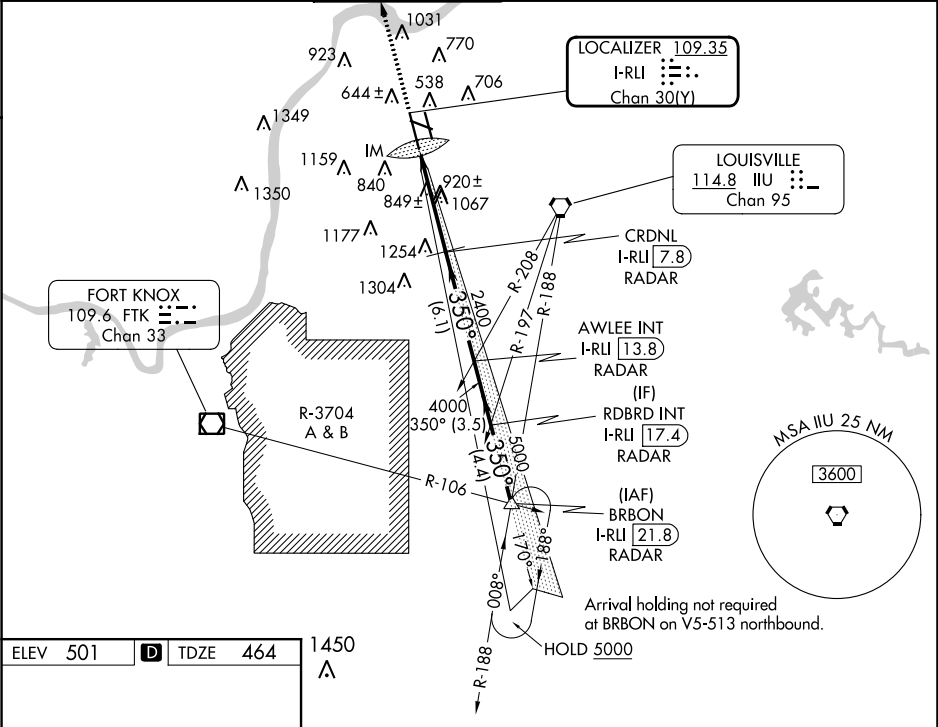
D-ATIS 118.725	LOUISVILLE APP CON 132.075 327.0	LOUISVILLE TOWER 124.2 257.8	GND CON 121.7 348.6	CLNC DEL 126.1 275.8	CPDLC
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LOC/DME I-RLI 109.35 Chan 30(Y)	APP CRS 350°	Rwy Idg TDZE 464 Apt Elev 501	OLD	ILS RWY 35L (CAT II & III) LOUISVILLE MUHAMMAD ALI INTL (SDF')
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RADAR required. Simultaneous approach authorized. CAT II: RVR 1000 authorized with specific OPSPEC, MSPEC, or LOA approval and use of autoland or HUD to touchdown.	ALSF-2 	MISSED APPROACH: Climb to 4000 on heading 350°, expect RADAR vectors.
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D-ATIS 118.725	LOUISVILLE APP CON 132.075 327.0	LOUISVILLE TOWER 124.2 257.8	GND CON 121.7 348.6	CLNC DEL 126.1 275.8	CPDLC
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SE-1, 30 NOV 2023 to 28 DEC 2023

SE-1, 30 NOV 2023 to 28 DEC 2023

KSDF
Louisville Muhammad Ali Intl
Louisville, KY
ILS or LOC Rwy 35L, Amdt 5
BRBON Entry Point
1:500,000

Missed Holding
TOWER (1133)
18-002484

CTC LOUISVILLE APP WITHIN
20 NM ON 132.075

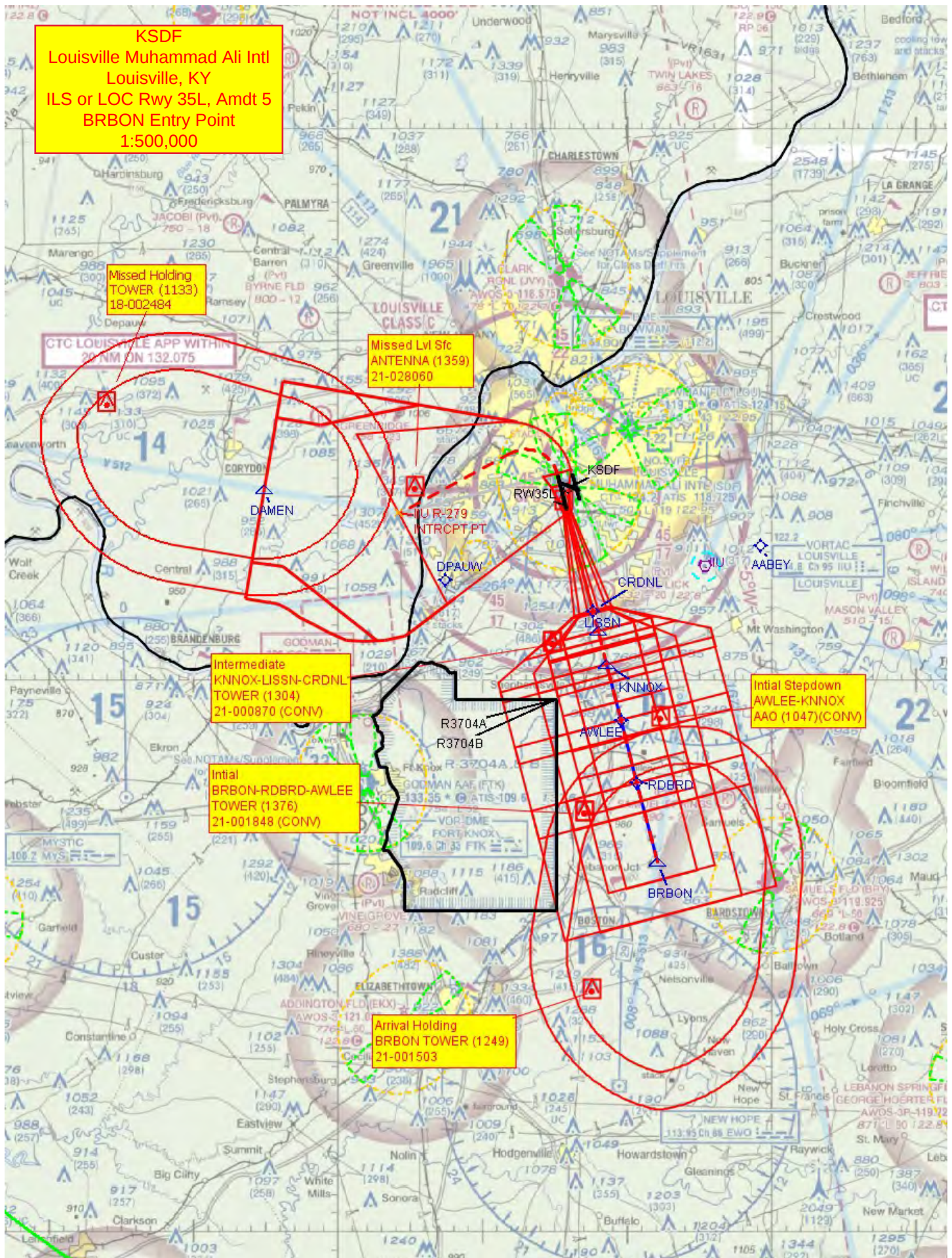
Missed Lvl Stc
ANTENNA (1359)
21-028060

Intermediate
KNNOX-LISSN-CRDNL
TOWER (1304)
21-000870 (CONV)

Initial
BRBON-RDBRD-AWLEE
TOWER (1376)
21-001848 (CONV)

Initial Stepdown
AWLEE-KNNOX
AAO (1047) (CONV)

Arrival Holding
BRBON TOWER (1249)
21-001503



KSDF
Louisville Muhammad Ali Intl
Louisville, KY
ILS or LOC Rwy 35L, Amdt 5
AABEY Entry Point
1:500,000

Missed Holding
TOWER (1133)
18-002484

Missed Lvl Srfc
ANTENNA (1359)
21-028060

Intermediate AABEY-EBOCO
TOWER (1012)
21-020059

Intermediate
GIGUE-LISSN-CRDNL
AAO (1004)

Intermediate FANIE-GIGUE
AAO (978)

Intermediate EBOCO-FANIE
AAO (906)

R3704A
R3704B
R3704A & B
VOR-DME
FORT KNOX
109.6 CH 33 FTK
118.6
111.5
108.8

KSDF
Louisville Muhammad Ali Intl
Louisville, KY
ILS or LOC Rwy 35L, Amdt 5
DPAUW Entry Point
1:500,000

Missed Holding
TOWER (1133)
18-002484

CTC LOUISVILLE APP WITHIN
20 NM ON 132.075

Missed Lvl Srfc
ANTENNA (1359)
21-028060

Intermediate Stepdowns
DPAUW-HONUS-IVALE-JOPRA-LISSN-CRDNL
TOWER (1304)
21-000870

R3704A
R3704B
R-3704A & B
133.35 + ATIS 109.6
VOR-DME
FORT KNOX
109.6 CH 33 FTK

