

RADIO FIX AND HOLDING DATA RECORD

NAME: BRBON

STATE: KY

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 375009.94N/0853800.33W

TYPE: WP, RADAR, INT, DME

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	FEET	MRA	MAA
1	LOUISVILLE	I-RLI	LOC/DME		170.40	165.40	21.79	21.81		5000	6000
2	FORT KNOX	FTK	VOR/DME	T	105.71	104.71		16.67		2700	17500
3	LOUISVILLE	IIU	VORTAC	H	188.43	189.43	16.24	16.24		2700	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-RLI	LOC/DME	BRG-170	22	5000	6000
FTK	VOR/DME	R-106	17	12700	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 DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	S	IIU	VORTAC	188.43	008.43	R	1	4000 6000	5 6
2	S		WP	188.43	008.43	R	4	3000 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (21-001503)	374304.00N/0854231.00W	1249	5E
2	200	TOWER (21-001503)	374304.00N/0854231.00W	1249	5E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

LOUISVILLE (FAC 1) AND LOUISVILLE (FAC 3) USED TO ESTABLISH FIX COORDINATES.
I-RLI DME COORDINATES: 381117.19N/0854453.51W
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V513	1, 3				(US)
IAP	ILS OR LOC RWY 35L	1, 2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT II & III)	1, 2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (SA CAT I)	1, 2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 35L		2	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35L			KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	FRIZN (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	LEDDL (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 07/11/2024

REASON FOR REVISION:

REMOVED FIX USE KSDF ILS OR LOC RWY 35R (SA CAT I, CAT II & III), RNAV (GPS) Y RWY 35R, RNAV (RNP) Z RWY 35R.
ADDED FIX USE LEDDL (RNAV) STAR FOR KSDF.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: RAYMOND JOHNSON

APPROVED BY:

DATE: 07/11/2024

OFFICE: AJV-A423

NAME: MICHAEL GARRITY

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: DAMEN

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 381024.14N/0860513.01W

TYPE: WP, 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 FEET	MRA	MAA
1	LOUISVILLE	IIU	VORTAC	H	279.01	280.01	24.48	24.48	4000	17500
2	MYSTIC	MYS	VOR	L	025.00	024.00		18.33	2700	17500

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	W		WP	279.01	099.01	L	4	4000 6000	5 6
2	W	IIU	VORTAC	279.01	099.01	L	1	4000 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-002484)	381501.09N/0861606.35W	1133	4D
2	200	TOWER (18-002484)	381501.09N/0861606.35W	1133	4D

REASON FOR NONSTANDARD HOLDING:

PAT 1 LOUISVILLE VORTAC (IIU) RESTRICTIONS: VOR: UNUSABLE 275° - 330° DME BYD 30.0NM BLO 4000 AND TACAN: UNUSABLE 225° - 275° BLO 5000'

PAT 2 LOUISVILLE VORTAC (IIU) RESTRICTIONS: VOR: UNUSABLE 275° - 330° DME BYD 30.0NM BLO 4000 AND TACAN: UNUSABLE 225° - 275° BLO 5000'

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

LOUISVILLE (FAC 1) AND MYSTIC (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V512	1, 2				
IAP	ILS OR LOC RWY 17R	2	2	KSDF	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 35L	1, 2	2	KSDF	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 35L	1, 2	2	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT II & III)	1, 2	2	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (SA CAT I)	1, 2	2	KSDF	LOUISVILLE	KY (US)
IAP	LOC RWY 29	1, 2	2	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 17R		1	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 29		1	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 35L		1	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 17R	2	1	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 29		1	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35L		1	KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)			KSDF	LOUISVILLE	KY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 07/11/2024

REASON FOR REVISION:

- UPDATE FIX USE: ADDED IAPS AT KSDF - LOC RWY 29 FAC 1 AND 2 AND PAT 2; RNAV (RNP) Z RWY 29, PAT 1; RNAV (RNP) Z RWY 17R, PAT 1; RNAV (GPS) Y 17R, PAT 1; ILS OR LOC 17R, FAC 1 AND 2 AND PAT 2; ILS OR RWY 35L, ILS RWY 35L (SA CATI) AND ILS RWY 35L (CAT II & III) AND ALL USE FAC 1 AND 2, AND PAT 2. CHANGED - RNAV (GPS) RWY 29 TO RNAV (GPS) Y RWY 29.
- ADDED HOLDING PATTERN 2 FOR INSTRUMENT PROCEDURE HOLDING: NON-STANDARD TURNS (LT), MIN HOLDING 4000, MAX 6000, MIN PAT TEMPLATE 5 AND MAX 6, AIRSPEED 200; CONTROLLING OBSTACLE: 1133 MSL TOWER (18-002484) (4D), LAT/LONG: 381501.09N/0861606.35W.
- ADDED REASON FOR NON-STANDARD HOLDING FOR PAT1 AND PAT 2: LOUISVILLE VORTAC (IIU) RESTRICTIONS: VOR: UNUSABLE 275° - 330° DME BYD 30.0NM BLO 4000 AND TACAN: UNUSABLE 225° 275° BLO 5000'
- CHANGED HOLDING PATTERN 1 INBOUND COURSE FROM 99.00 TO 99.01, HOLDING TURNS FROM RIGHT TO LEFT, MINIMUM HOLDING ALTITUDE FROM 3000 FEET TO 4000 AND CONTROLLING OBSTACLE: 1133 MSL TOWER (18-002484) (4D), LAT/LONG: 381501.09N/0861606.35W.
- UPDATED FIX MAKE-UP FACILITIES: FAC 1 MRA FROM 10000 FEET TO 4000 FEET.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:	AJV-A421	NAME: ANDRE MARSH
APPROVED BY:	DATE: 07/11/2024	OFFICE: AJV-A420
	SIGNATURE:	NAME: DAVID DANNER

RADIO FIX AND HOLDING DATA RECORD

NAME: LOUISVILLE VORTAC

STATE: KY

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 380612.47N/0853438.77W

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 FEET	MRA	MAA
1	LOUISVILLE	IIU	VORTAC	H						45000

FIX RESTRICTIONS:

MCA V53 7000 NORTHWEST BOUND
MCA V4 10000 WESTBOUND

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN 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 13
3	SE		WP	120.00	300.00	R	10	6000 6000	15 15
4	E		WP	095.00	275.00	R	4	3000 6000	5 6
5	E	IIU	VORTAC	095.00	275.00	R	1	3000 6000	4 5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (21-000719)	380853.00N/0852942.00W	1088	5D
1	310	TOWER (21-000115)	381135.00N/0853114.00W	1228	4D
2	200	TOWER (21-000719)	380853.00N/0852942.00W	1088	5D
2	310	TOWER (21-000115)	381135.00N/0853114.00W	1228	4D
3	200	TOWER (21-000420)	380349.32N/0854351.61W	1254	1B
4	200	TOWER (21-000115)	381135.00N/0853114.00W	1228	4D
4	310	TOWER (21-000111)	381540.67N/0852543.01W	1409	4D
5	200	TOWER (21-000719)	380853.00N/0852942.00W	1088	5D
5	310	TOWER (21-000115)	381135.00N/0853114.00W	1228	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
4	RNAV (RNP) Z RWY 17L	KSDF	LOUISVILLE	KY (US)
4	RNAV (GPS) Y RWY 17L	KSDF	LOUISVILLE	KY (US)
5	ILS OR LOC RWY 17L	KSDF	LOUISVILLE	KY (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 3 EVALUATED FOR 10NM LEGS PER ATC REQUEST.
ASSIGNED FAC MAGVAR 1E/1965.

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	CINCINNATI			KCVG	COVINGTON	KY (US)
DP	TEDDD (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CHATANOOGA			KCHA	CHATTANOOGA	TN (US)
DP	KNOXVILLE			KTYS	KNOXVILLE	TN (US)
DP	NASHVILLE			KBNA	NASHVILLE	TN (US)
EN ROUTE	J112					(US)
EN ROUTE	J526					(US)
EN ROUTE	J78					(US)
EN ROUTE	J8					(US)
EN ROUTE	J89					(US)
EN ROUTE	J99					(US)
EN ROUTE	Q139					(US)
EN ROUTE	Q50					(US)
EN ROUTE	T213					(US)
EN ROUTE	V171					(US)
EN ROUTE	V310					(US)
EN ROUTE	V4					(US)
EN ROUTE	V51					(US)
EN ROUTE	V512					(US)
EN ROUTE	V513					(US)

EN ROUTE	V53			(US)
IAP	LOC RWY 30		KDVK	DANVILLE
IAP	VOR-A		KEKX	ELIZABETHTOWN
IAP	ILS OR LOC/DME RWY 18		KFTK	FORT KNOX
IAP	RNAV (GPS) RWY 18		KFTK	FORT KNOX
IAP	ILS OR LOC RWY 17L	5	KSDF	LOUISVILLE
IAP	ILS OR LOC RWY 17R		KSDF	LOUISVILLE
IAP	ILS OR LOC RWY 35L		KSDF	LOUISVILLE
IAP	ILS OR LOC RWY 35R		KSDF	LOUISVILLE
IAP	ILS RWY 35L (CAT II, III)		KSDF	LOUISVILLE
IAP	ILS RWY 35L (SA CAT I)		KSDF	LOUISVILLE
IAP	ILS RWY 35R (CAT II, III)		KSDF	LOUISVILLE
IAP	ILS RWY 35R (SA CAT I)		KSDF	LOUISVILLE
IAP	LOC RWY 29		KSDF	LOUISVILLE
IAP	RNAV (GPS) Y RWY 17L	4	KSDF	LOUISVILLE
IAP	RNAV (RNP) Z RWY 17L	4	KSDF	LOUISVILLE
STAR	CHERI		KJVV	JEFFERSONVILLE
STAR	DARBY		KJVV	JEFFERSONVILLE
STAR	CHERI		KFTK	FORT KNOX
STAR	CHERI		KLOU	LOUISVILLE
STAR	DARBY		KLOU	LOUISVILLE
STAR	CHERI		KSDF	LOUISVILLE
STAR	DAMEN (RNAV)	3	KSDF	LOUISVILLE
STAR	DARBY		KSDF	LOUISVILLE
STAR	DLAMP (RNAV)	3	KSDF	LOUISVILLE
STAR	FRIZN (RNAV)	3	KSDF	LOUISVILLE
STAR	MAUDD (RNAV)	3	KSDF	LOUISVILLE
STAR	MBELL (RNAV)	3	KSDF	LOUISVILLE

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 26

DATE OF REVISION: 07/11/2024

REASON FOR REVISION:

-ADDED HOLDING PATTERNS 4 AND 5.
 -ADDED CONTROLLING OBSTRUCTIONS FOR HOLDING PATTERNS 4 AND 5.
 -ADDED PATTERN 4 TO PROCEDURES REQUIRING CLIMB-IN-HOLD.
 -ADDED PATTERN 5 TO PROCEDURES REQUIRING CLIMB-IN-HOLD.
 -CHANGED RNAV (RNP) Z RWY 17L TO PAT 4 IN PROCEDURES REQUIRING CLIMB-IN-HOLD.
 -CHANGED RNAV (GPS) Y RWY 17L TO PAT 4 IN PROCEDURES REQUIRING CLIMB-IN-HOLD.
 -FIX USE: ADDED PAT 5 TO ILS OR LOC RWY 17L.
 -FIX USE: ADDED PAT 4 TO RNAV (GPS) Y RWY 17L.
 -FIX USE: ADDED PAT 4 TO RNAV (RNP) Z RWY 17L.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: TIMOTHY JOHNSON

APPROVED BY:

DATE: 07/11/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE: