

RADIO FIX AND HOLDING DATA RECORD

NAME: APPLETON VORTAC

STATE: OH

COUNTRY: US

LATITUDE/LONGITUDE: 400903.83N/0823517.88W

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	FEET	MRA	MAA
1	APPLETON	APE	VORTAC	H							45000

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	NE	APE	VORTAC	055.00	235.00	R	1		3000	6000	4	5
2	NW	APE	VORTAC	328.00	148.00	L	1		2900	6000	4	5
3	S	APE	VORTAC	202.00	022.00	R	1		3000	6000	4	5
4	SE	APE	VORTAC	114.00	294.00	R	1		3000	6000	4	5
5	S	APE	VORTAC	194.00	014.00	R	1		3000	6000	4	5
6	NW		WP	328.00	148.00	L		4	3000	6000	5	6
7	NE		WP	055.00	235.00	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D
2	200	TOWER (39-000783)	401344.22N/0823935.43W	1599	5D
3	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D
4	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D
5	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D
6	200	TOWER (39-000783)	401344.22N/0823935.43W	1599	5D
7	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D

REASON FOR NONSTANDARD HOLDING:

PAT 6 ATC REQUEST
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUTION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CINCINNATI			KCVG	COVINGTON/CINCINNATI	KY (US)
DP	LOCKBOURNE			KLCK	COLUMBUS	OH (US)
DP	DAYTON			KDAY	DAYTON	OH (US)
EN ROUTE	J178					(US)
EN ROUTE	J186					(US)
EN ROUTE	J30					(US)
EN ROUTE	J83					(US)
EN ROUTE	V12					(US)
EN ROUTE	V144					(US)
EN ROUTE	V19					(US)
EN ROUTE	V38					(US)
EN ROUTE	V43					(US)
EN ROUTE	V45					(US)
EN ROUTE	V493					(US)
EN ROUTE	V5					(US)
EN ROUTE	V523					(US)
EN ROUTE	V525					(US)
IAP	ILS OR LOC RWY 10L		1	KCMH	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 10R		1	KCMH	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 28L			KCMH	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 28R		1	KCMH	COLUMBUS	OH (US)
IAP	ILS RWY 10R (SA CAT I)		1	KCMH	COLUMBUS	OH (US)
IAP	ILS RWY 10R (SA CAT II)			KCMH	COLUMBUS	OH (US)
IAP	ILS RWY 28L (SA CAT I)			KCMH	COLUMBUS	OH (US)
IAP	ILS RWY 28L (SA CAT II)			KCMH	COLUMBUS	OH (US)
IAP	RNAV (GPS) Y RWY 10L		7	KCMH	COLUMBUS	OH (US)
IAP	RNAV (GPS) Y RWY 10R			KCMH	COLUMBUS	OH (US)
IAP	RNAV (GPS) Y RWY 28R			KCMH	COLUMBUS	OH (US)
IAP	RNAV (RNP) Z RWY 10L		7	KCMH	COLUMBUS	OH (US)
IAP	RNAV (RNP) Z RWY 28R			KCMH	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 5R			KLCK	COLUMBUS	OH (US)
IAP	ILS RWY 5R (CAT II)			KLCK	COLUMBUS	OH (US)
IAP	ILS RWY 5R (SA CAT I)			KLCK	COLUMBUS	OH (US)
IAP	NDB RWY 23L			KLCK	COLUMBUS	OH (US)
IAP	NDB RWY 5R			KLCK	COLUMBUS	OH (US)

QUALITY
2
CHECKED

IAP	ILS OR LOC RWY 9R (ALT MISS)	1	KOSU	COLUMBUS	OH (US)
IAP	RNAV (GPS) RWY 09R		KOSU	COLUMBUS	OH (US)
IAP	RNAV (GPS) RWY 27L		KOSU	COLUMBUS	OH (US)
IAP	VOR RWY 28	4	KDLZ	DELAWARE	OH (US)
IAP	RNAV (GPS) RWY 28		KLHQ	LANCASTER	OH (US)
IAP	VOR OR GPS-A	5	KLHQ	LANCASTER	OH (US)
IAP	LOC/DME RWY 25		KMNN	MARION	OH (US)
IAP	VOR-A		K4I9	MOUNT GILEAD	OH (US)
IAP	RNAV (GPS) RWY 10		K4I3	MOUNT VERNON	OH (US)
IAP	RNAV (GPS) RWY 28		K4I3	MOUNT VERNON	OH (US)
IAP	VOR-A	3	K4I3	MOUNT VERNON	OH (US)
IAP	GPS RWY 27	6	KVTA	NEWARK	OH (US)
IAP	LOC RWY 9	2	KVTA	NEWARK	OH (US)
IAP	NDB OR GPS RWY 9	2	KVTA	NEWARK	OH (US)
IAP	VOR-A	2	KVTA	NEWARK	OH (US)
IAP	ILS OR LOC RWY 24		KSGH	SPRINGFIELD	OH (US)
IAP	ILS OR LOC RWY 22R		KILN	WILMINGTON	OH (US)
IAP	ILS RWY 22R (CAT II)		KILN	WILMINGTON	OH (US)
IAP	ILS RWY 22R (CAT III)		KILN	WILMINGTON	OH (US)
STAR	REDSTONE		KJVV	JEFFERSONVILLE	IN (US)
STAR	TIGRR (RNAV)		KCVG	COVINGTON	KY (US)
STAR	CINCE		KCVG	COVINGTON/CINCINNATI	KY (US)
STAR	CINCE		KK62	FALMOUTH	KY (US)
STAR	HEDEE		KK62	FALMOUTH	KY (US)
STAR	REDSTONE		KLOU	LOUISVILLE	KY (US)
STAR	REDSTONE		KSDF	LOUISVILLE	KY (US)
STAR	GEMNI		KDTW	DETROIT	MI (US)
STAR	CINCE		KI69	BATAVIA	OH (US)
STAR	HEDEE		KI69	BATAVIA	OH (US)
STAR	CINCE		KISZ	CINCINNATI	OH (US)
STAR	HEDEE		KISZ	CINCINNATI	OH (US)
STAR	CINCE		KLUK	CINCINNATI	OH (US)
STAR	HEDEE		KLUK	CINCINNATI	OH (US)
STAR	ZABER		KBKL	CLEVELAND	OH (US)
STAR	ZABER		KCGF	CLEVELAND	OH (US)
STAR	ZABER		KCLE	CLEVELAND	OH (US)
STAR	BREMN		KCMH	COLUMBUS	OH (US)
STAR	GUNNE		KCMH	COLUMBUS	OH (US)
STAR	BREMN		KLCK	COLUMBUS	OH (US)
STAR	GUNNE		KLCK	COLUMBUS	OH (US)
STAR	BREMN		KOSU	COLUMBUS	OH (US)
STAR	GUNNE		KOSU	COLUMBUS	OH (US)
STAR	BREMN		KTZR	COLUMBUS	OH (US)
STAR	GUNNE		KTZR	COLUMBUS	OH (US)
STAR	DANEI		KDAY	DAYTON	OH (US)
STAR	DANEI		KFFO	DAYTON	OH (US)
STAR	DANEI		KMGY	DAYTON	OH (US)
STAR	ZABER		K1G1	ELYRIA	OH (US)
STAR	CINCE		KHAO	HAMILTON	OH (US)
STAR	HEDEE		KHAO	HAMILTON	OH (US)
STAR	GUNNE		KLHQ	LANCASTER	OH (US)
STAR	ZABER		KLPR	LORAIN/ELYRIA	OH (US)
STAR	ZABER		K1G5	MEDINA	OH (US)
STAR	ZABER		K7G8	MIDDLEFIELD	OH (US)
STAR	DANEI		KMWO	MIDDLETOWN	OH (US)
STAR	GUNNE		KVTA	NEWARK	OH (US)
STAR	ZABER		K2G1	PAINESVILLE	OH (US)
STAR	DANEI		KSGH	SPRINGFIELD	OH (US)
STAR	ZABER		KLNN	WILLOUGHBY	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19

DATE OF REVISION: 07/21/2016

REASON FOR REVISION:

FIX USE: ADDED KLCK - ILS RWY 5R (SA CAT I); DELETED KCMH - RNAV (GPS) Y RWY 28L, RNAV (GPS) Z RWY 28L, KLCK - ILS OR LOC RWY 23L, KDLZ - NDB RWY 10, KLHQ - LOC RWY 28 AND DLAMP (RNAV) STAR.

DEVELOPED BY: **DATE:** 02/24/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY: **DATE:**

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY: CMH APP CON
OTHER: EASTERN FPO

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD INFO ONLY

NAME: BRBON

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 375009.94N/0853800.33W

TYPE: WP, RADAR, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	LOUISVILLE	I-RLI	LOC/DME		169.39	165.39	21.79	21.80	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	R-169	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 PATTERNS.

REMARKS:

LOUISVILLE (FAC 3) AND LOUISVILLE (FAC 1) USED TO ESTABLISH FIX COORDINATES
 I-RLI DME COORDINATES: 381117.18N / 0854453.38W
 KSDF RWY 35L DISPLACED THRESHOLD COORDINATES: 380929.40N / 0854421.37W
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V5-513					(US)
IAP	ILS OR LOC RWY 35L	1, 2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS OR LOC RWY 35R	2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT II)	1, 2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35L (CAT III)	1, 2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (CAT II)	2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (CAT III)	2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (SA CAT I)	2, 3	1	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 35L		2	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (GPS) Y RWY 35R		2	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35L		2	KSDF	LOUISVILLE	KY (US)
IAP	RNAV (RNP) Z RWY 35R		2	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	MBELL (RNAV)			KSDF	LOUISVILLE	KY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 05/29/2014

REASON FOR REVISION:

FAC 1 & 3 RESTORED FROM HISTORY.

DEVELOPED BY:

DATE: 10/17/2013

OFFICE: AJV-352

NAME: HOWARD HAWKINS

APPROVED BY:

DATE: 05/29/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
 FPO: EST
 ARTCC: ZID

QUALITY
2
CHECKED

ATC FACILITY: SDF ATCT/APP CON
OTHER: SDF AIRPORT MANAGER

INFO ONLY



RADIO FIX AND HOLDING DATA RECORD

NAME: BRELL

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 380514.95N/0853515.79W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:

USE TYPE

STAR

STAR

STAR

USE TITLE

DLAMP (RNAV)

MAUDD (RNAV)

MBELL (RNAV)

FAC

PAT

AIRPORT IDENT

KSDF

KSDF

KSDF

CITY

LOUISVILLE

LOUISVILLE

LOUISVILLE

STATE

KY (US)

KY (US)

KY (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/21/2016

DEVELOPED BY:

DATE: 02/23/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZID

ATC FACILITY: SDF APP CON

OTHER:

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CURRT

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 381818.96N/0853938.03W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:

USE TYPE

STAR

STAR

STAR

USE TITLE

DLAMP (RNAV)

MAUDD (RNAV)

MBELL (RNAV)

FAC

PAT

AIRPORT IDENT

KSDF

KSDF

KSDF

CITY

LOUISVILLE

LOUISVILLE

LOUISVILLE

STATE

KY (US)

KY (US)

KY (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/21/2016

DEVELOPED BY:

DATE: 02/23/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZID

ATC FACILITY: SDF APP CON

OTHER:

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: CINCINNATI VORTAC

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 390057.53N/0844212.05W

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	CINCINNATI	CVG	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 DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SW	CVG	VORTAC	240.00	060.00	R	1	3000 6000	4 5
2	NE	CVG	VORTAC	058.59	238.59	R	1-1 1/2	3000 23000	4 19
3	NE		WP	058.59	238.59	R	4	3000 14000	5 11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (21-020422)	390026.84N/0844600.35W	1180	2C
2	200	TOWER (39-000369)	390719.00N/0843253.00W	1715	4D
3	200	TOWER (39-000369)	390719.00N/0843253.00W	1715	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	INDY			KEYE	INDIANAPOLIS	IN (US)
DP	INDY			KHFY	INDIANAPOLIS	IN (US)
DP	INDY			KIND	INDIANAPOLIS	IN (US)
DP	SULVN (RNAV)			KIND	INDIANAPOLIS	IN (US)
DP	INDY			KMQJ	INDIANAPOLIS	IN (US)
DP	INDY			KTYQ	INDIANAPOLIS	IN (US)
DP	INDY			KUMP	INDIANAPOLIS	IN (US)
DP	INDY			KGEZ	SHELBYVILLE	IN (US)
DP	BLUEGRASS			KCVG	COVINGTON	KY (US)
DP	BNGLE (RNAV)			KCVG	COVINGTON	KY (US)
DP	CINCINNATI			KCVG	COVINGTON	KY (US)
DP	HAGOL (RNAV)			KCVG	COVINGTON	KY (US)
DP	KENLN (RNAV)			KCVG	COVINGTON	KY (US)
DP	ROHMM			KCVG	COVINGTON	KY (US)
DP	WHITEWATER			KCVG	COVINGTON	KY (US)
DP	ROCKT (RNAV)			KLUK	CINCINNATI	OH (US)
DP	LOCKBOURNE			KLCK	COLUMBUS	OH (US)
DP	DAYTON			KDAY	DAYTON	OH (US)
EN ROUTE	V128					(US)
EN ROUTE	V19					(US)
EN ROUTE	V275					(US)
EN ROUTE	V47					(US)
EN ROUTE	V5					(US)
EN ROUTE	V517					(US)
EN ROUTE	V97					(US)
IAP	ILS OR LOC RWY 18C			KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 18L			KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 18R			KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 27 (ALT MA)		1	KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 36C			KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 36L			KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 36R			KCVG	COVINGTON	KY (US)
IAP	ILS OR LOC RWY 9			KCVG	COVINGTON	KY (US)
IAP	ILS RWY 18R (CAT II)			KCVG	COVINGTON	KY (US)
IAP	ILS RWY 36C (CAT II, III)			KCVG	COVINGTON	KY (US)
IAP	ILS RWY 36L (CAT II)			KCVG	COVINGTON	KY (US)
IAP	ILS RWY 36R (CAT II, III)			KCVG	COVINGTON	KY (US)
IAP	VOR-B			KI69	BATAVIA	OH (US)
IAP	ILS OR LOC RWY 21L			KLUK	CINCINNATI	OH (US)
IAP	NDB RWY 21L			KLUK	CINCINNATI	OH (US)
IAP	NDB RWY 25			KLUK	CINCINNATI	OH (US)
IAP	ILS OR LOC RWY 29			KHAO	HAMILTON	OH (US)
IAP	RNAV (GPS) RWY 11			KHAO	HAMILTON	OH (US)
IAP	RNAV (GPS) RWY 29			KHAO	HAMILTON	OH (US)
IAP	VOR RWY 19			KI67	HARRISON	OH (US)
IAP	RNAV (GPS) RWY 23			KHOC	HILLSBORO	OH (US)
IAP	ILS OR LOC RWY 22R			KILN	WILMINGTON	OH (US)
IAP	ILS OR LOC RWY 4L			KILN	WILMINGTON	OH (US)

QUALITY
2
CHECKED

IAP	ILS RWY 22R (CAT II, III)		KILN	WILMINGTON	OH (US)
STAR	REDSTONE	2	KJVV	JEFFERSONVILLE	IN (US)
STAR	BRUSH		KCVG	COVINGTON	KY (US)
STAR	CEGRM (RNAV) (LOST COMM)	3	KCVG	COVINGTON	KY (US)
STAR	CINCE		KCVG	COVINGTON	KY (US)
STAR	DEBAR		KCVG	COVINGTON	KY (US)
STAR	GAVNN (RNAV) (LOST COMM)	3	KCVG	COVINGTON	KY (US)
STAR	HARDU		KCVG	COVINGTON	KY (US)
STAR	JAKIE (RNAV) (LOST COMM)	3	KCVG	COVINGTON	KY (US)
STAR	SARGO (RNAV) (LOST COMM)	3	KCVG	COVINGTON	KY (US)
STAR	SHELBYVILLE		KCVG	COVINGTON	KY (US)
STAR	TIGRR (RNAV) (LOST COMM)	3	KCVG	COVINGTON	KY (US)
STAR	BRUSH		KK62	FALMOUTH	KY (US)
STAR	CINCE		KK62	FALMOUTH	KY (US)
STAR	GENUS		KK62	FALMOUTH	KY (US)
STAR	HARDU		KK62	FALMOUTH	KY (US)
STAR	HEDEE		KK62	FALMOUTH	KY (US)
STAR	SHELBYVILLE		KK62	FALMOUTH	KY (US)
STAR	CLEGG		KLEX	LEXINGTON	KY (US)
STAR	REDSTONE	2	KLOU	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)		KSDF	LOUISVILLE	KY (US)
STAR	REDSTONE	2	KSDF	LOUISVILLE	KY (US)
STAR	BRUSH		KI69	BATAVIA	OH (US)
STAR	CINCE		KI69	BATAVIA	OH (US)
STAR	GENUS		KI69	BATAVIA	OH (US)
STAR	HARDU		KI69	BATAVIA	OH (US)
STAR	HEDEE		KI69	BATAVIA	OH (US)
STAR	SHELBYVILLE		KI69	BATAVIA	OH (US)
STAR	BRUSH		KLUK	CINCINNATI	OH (US)
STAR	GENUS		KLUK	CINCINNATI	OH (US)
STAR	HARDU		KLUK	CINCINNATI	OH (US)
STAR	HEDEE		KLUK	CINCINNATI	OH (US)
STAR	SHELBYVILLE		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	GAILL (RNAV)		KLCK	COLUMBUS	OH (US)
STAR	GAILL (RNAV)		KOSU	COLUMBUS	OH (US)
STAR	GAILL (RNAV)		KTZR	COLUMBUS	OH (US)
STAR	KEKEE		KDAY	DAYTON	OH (US)
STAR	ZABER		K1G1	ELYRIA	OH (US)
STAR	BRUSH		KHAO	HAMILTON	OH (US)
STAR	CINCE		KHAO	HAMILTON	OH (US)
STAR	GENUS		KHAO	HAMILTON	OH (US)
STAR	HARDU		KHAO	HAMILTON	OH (US)
STAR	HEDEE		KHAO	HAMILTON	OH (US)
STAR	SHELBYVILLE		KHAO	HAMILTON	OH (US)
STAR	GAILL (RNAV)		KLHQ	LANCASTER	OH (US)
STAR	ZABER		KLPR	LORAIN/ELYRIA	OH (US)
STAR	ZABER		K1G5	MEDINA	OH (US)
STAR	ZABER		K7G8	MIDDLEFIELD	OH (US)
STAR	GAILL (RNAV)		KVTA	NEWARK	OH (US)
STAR	ZABER		K2G1	PAINESVILLE	OH (US)
STAR	ZABER		KLNN	WILLOUGHBY	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 04/30/2015

REASON FOR REVISION:

UPDATED FIX USE, REMOVED DECEE STAR.

DEVELOPED BY: **DATE:** 10/14/2014

OFFICE: AJV-353

NAME: THOMAS KIRKPATRICK

APPROVED BY: **DATE:** 03/02/2015

OFFICE: AJV-353

NAME: GEORGE GONZALEZ

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY: CVG APP CON
OTHER:

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: DLAMP

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 381201.95N/0853729.40W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:

USE TYPE

STAR DLAMP (RNAV)
STAR MAUDD (RNAV)
STAR MBELL (RNAV)

FAC PAT

AIRPORT IDENT

KSDF LOUISVILLE
KSDF LOUISVILLE
KSDF LOUISVILLE

CITY

STATE

KY (US)
KY (US)
KY (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/26/2012

DEVELOPED BY:

DATE: 06/10/2011

OFFICE: AJV-352

NAME: MICHAEL CURRAN

APPROVED BY:

DATE: 05/25/2012

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

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

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GETTA

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 380534.87N/0853520.40W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP
IAP

USE TITLE

RNAV (RNP) Z RWY 35L
RNAV (RNP) Z RWY 35R

FAC

PAT

AIRPORT IDENT

KSDF
KSDF

CITY

LOUISVILLE
LOUISVILLE

STATE

KY (US)
KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 07/21/2016

REASON FOR REVISION:

FIX USE: DELETED DLAMP (RNAV) STAR AND MBELL (RNAV) STAR.
REQUIRED CHARTING: REMOVED STAR.

DEVELOPED BY:

DATE: 02/29/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZID

ATC FACILITY: SDF APP CON/ATCT

OTHER:

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HAYGA

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 381642.95N/0852441.60W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STAR

USE TITLE
DLAMP (RNAV)

FAC

PAT

AIRPORT IDENT
KSDF

CITY
LOUISVILLE

STATE
KY (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/21/2016

DEVELOPED BY:

DATE: 02/23/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: SDF APP CON
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	FEET	MRA	MAA
1	LOUISVILLE	IIU	VORTAC	H							45000

FIX RESTRICTIONS:

MCA V5 10000 NORTHEAST BOUND

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	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
3	SE		WP	120.00	300.00	R		10	6000	6000	15	15

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
3	200	TOWER (21-000420)	380349.00N/0854352.00W	1249	5E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	RNAV (GPS) Y RWY 17L	KSDF	LOUISVILLE	KY (US)
2	RNAV (RNP) Z RWY 17L	KSDF	LOUISVILLE	KY (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 3 EVALUATED FOR 10NM LEGS PER ATC REQUEST.

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	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	BLUES			KSTL	ST LOUIS	MO (US)
DP	TEDDD			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	NASHVILLE			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	Q50					(US)
EN ROUTE	T213					(US)
EN ROUTE	V171					(US)
EN ROUTE	V310					(US)
EN ROUTE	V4					(US)
EN ROUTE	V5					(US)
EN ROUTE	V512					(US)
EN ROUTE	V513					(US)
EN ROUTE	V53					(US)
IAP	LOC/DME RWY 30			KDVK	DANVILLE	KY (US)

QUALITY
2
CHECKED

IAP	VOR-A		KEKX	ELIZABETHTOWN	KY (US)
IAP	ILS OR LOC/DME RWY 18		KFTK	FORT KNOX	KY (US)
IAP	RNAV (GPS) RWY 18		KFTK	FORT KNOX	KY (US)
IAP	VOR RWY 24	1	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 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 35L (SA CAT I)		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (CAT II, III)		KSDF	LOUISVILLE	KY (US)
IAP	ILS RWY 35R (SA CAT I)		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	CHERI		KJVV	JEFFERSONVILLE	IN (US)
STAR	DARBY		KJVV	JEFFERSONVILLE	IN (US)
STAR	REDSTONE		KJVV	JEFFERSONVILLE	IN (US)
STAR	GENUS		KK62	FALMOUTH	KY (US)
STAR	CHERI		KFTK	FORT KNOX	KY (US)
STAR	CLEGG		KLEX	LEXINGTON	KY (US)
STAR	CHERI		KLOU	LOUISVILLE	KY (US)
STAR	DARBY		KLOU	LOUISVILLE	KY (US)
STAR	REDSTONE		KLOU	LOUISVILLE	KY (US)
STAR	CHERI		KSDF	LOUISVILLE	KY (US)
STAR	DAMEN (RNAV)	3	KSDF	LOUISVILLE	KY (US)
STAR	DARBY		KSDF	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)	3	KSDF	LOUISVILLE	KY (US)
STAR	FRIZN (RNAV)	3	KSDF	LOUISVILLE	KY (US)
STAR	MAUDD (RNAV)	3	KSDF	LOUISVILLE	KY (US)
STAR	MBELL (RNAV)	3	KSDF	LOUISVILLE	KY (US)
STAR	REDSTONE		KSDF	LOUISVILLE	KY (US)
STAR	GENUS		KI69	BATAVIA	OH (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	GAILL (RNAV)		KLCK	COLUMBUS	OH (US)
STAR	GAILL (RNAV)		KOSU	COLUMBUS	OH (US)
STAR	GAILL (RNAV)		KTZR	COLUMBUS	OH (US)
STAR	ZABER		K1G1	ELYRIA	OH (US)
STAR	GENUS		KHAO	HAMILTON	OH (US)
STAR	GAILL (RNAV)		KLHQ	LANCASTER	OH (US)
STAR	ZABER		KLPR	LORAIN/ELYRIA	OH (US)
STAR	ZABER		K7G8	MIDDLEFIELD	OH (US)
STAR	GAILL		KVTA	NEWARK	OH (US)
STAR	ZABER		KLNN	WILLOUGHBY	OH (US)
STAR	GUIR		KMBT	MURFREESBORO	TN (US)
STAR	HEHAW		KMBT	MURFREESBORO	TN (US)
STAR	GUIR		KBNA	NASHVILLE	TN (US)
STAR	HEHAW		KBNA	NASHVILLE	TN (US)
STAR	GUIR		KJWN	NASHVILLE	TN (US)
STAR	HEHAW		KJWN	NASHVILLE	TN (US)
STAR	GUIR		KMQY	SMYRNA	TN (US)
STAR	HEHAW		KMQY	SMYRNA	TN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14

DATE OF REVISION: 07/21/2016

REASON FOR REVISION:

FIX USE: CORRECTED DAMEN (RNAV); REMOVED PAT 1 FROM KSDF ILS OR LOC RWY 17L; ADDED PAT 3 TO FRIZN (RNAV) STAR, MBELL (RNAV) STAR, AND DAMEN (RNAV) STAR; ADDED "(RNAV)" TO DAMEN STAR.

DEVELOPED BY: **DATE:** 02/26/2016 **OFFICE:** AJV-5442 **NAME:** JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY: **DATE:** **OFFICE:** AJV-5410 **NAME:** MARLON ROBINSON

SIGNATURE:

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

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KAEDN

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 381459.68N/0853829.99W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP
IAP

USE TITLE
RNAV (RNP) Z RWY 17L
RNAV (RNP) Z RWY 17R

FAC PAT

AIRPORT IDENT
KSD
KSD

CITY
LOUISVILLE
LOUISVILLE

STATE
KY (US)
KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 07/21/2016

REASON FOR REVISION:

FIX USE: DELETED DLAMP (RNAV) STAR, MAUDD (RNAV) STAR AND MBELL (RNAV) STAR.
REQUIRED CHARTING: REMOVED STAR.

DEVELOPED BY:

DATE: 02/29/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

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: LAANG LOM

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 380840.90N/0853800.16W

TYPE: WP

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	LAANG	LKS	LOM-NDB								17500
2	LOUISVILLE	I-LKS	LOC		116.17	112.17		5.97	36296	2000	4900

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	SE	LKS	NDB	116.17	296.17	R	1		2300	4900	4	5
2	S	LKS	NDB	168.20	348.20	R	1		2500	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (21-000115)	381135.00N/0853114.00W	1228	4D
2	200	TOWER (21-020059)	380615.81N/0853401.36W	1021	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE LAANG LOM.
ACTUAL FACILITY LOCATION IS 380841.43N/0853759.89W.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	NDB RWY 33	1	2	KLOU	LOUISVILLE	KY (US)
IAP	LOC RWY 29	1, 2	1	KSDF	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)			KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11

DATE OF REVISION: 07/21/2016

REASON FOR REVISION:

FIX USE: DELETED DAMEN (RNAV) STAR, FRIZN (RNAV) STAR, MAUDD (RNAV) STAR AND MBELL (RNAV) STAR.

DEVELOPED BY: DATE: 02/26/2016 OFFICE: AJV-5442 NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY: DATE: OFFICE: AJV-5410 NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MALDN

STATE: OH

COUNTRY: US

LATITUDE/LONGITUDE: 401552.62N/0840319.34W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STAR

USE TITLE
DLAMP (RNAV)

FAC

PAT

AIRPORT IDENT
KSDF

CITY
LOUISVILLE

STATE
KY (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/21/2016

DEVELOPED BY:

DATE: 03/01/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: NERVE

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 383656.26N/0850525.24W

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	MRA	MAA
1	LOUISVILLE	IIU	VORTAC	H	035.68	036.68	38.35	38.35	10000	17500
2	FALMOUTH	FLM	VOR/DME	H	271.08	267.08		36.72	2700	17500
3	CINCINNATI	CVG	VORTAC	L	221.22	217.22	30.09	30.09	2700	17500

FIX RESTRICTIONS:

MCA V5 10000 SOUTHWEST BOUND

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	NE	CVG	VORTAC	221.22	221.22	L	1-1 1/2		10000	17500	11	18
2	NE		WP	039.98	219.98	L		10	10000	17500	15	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (21-000146)	383626.00N/0845610.00W	1231	5E
2	230	TOWER (21-000146)	383626.00N/0845610.00W	1231	5E

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST.

PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

FALMOUTH (FAC 2) AND LOUISVILLE (FAC 1) USED TO ESTABLISH FIX COORDINATES

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

PAT 2 - 10 NM LEGS REQUESTED BY ATC FOR RNAV STAR HOLDING.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T215					(US)
EN ROUTE	V5	1, 2, 3				(US)
STAR	REDSTONE	1, 3	1	KJVV	JEFFERSONVILLE	IN (US)
STAR	CLEGG	1, 3	1	KLEX	LEXINGTON	KY (US)
STAR	REDSTONE	1, 3	1	KLOU	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)		2	KSDF	LOUISVILLE	KY (US)
STAR	REDSTONE	1, 3	1	KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 05/26/2016

REASON FOR REVISION:

ADDED V5 MCA FLAG 10000 SOUTHWEST BOUND.

CHANGED FAC 2 (FLM) TRUE BRG FROM 267.07 TO 267.08 IN FIX MAKE-UP.

CHANGED FAC 2 (FLM) MAG BRG FROM 271.07 TO 271.08 IN FIX MAKE-UP.

CHANGED FAC 2 (FLM) DIST FROM FAC FROM 36.71 TO 36.72 IN FIX MAKE-UP.

DEVELOPED BY:

DATE: 07/01/2015

OFFICE: AJV-352

NAME: MARY LYNNE HOEGSTROM

APPROVED BY:

DATE:

OFFICE: AJV-352

NAME: ADOLFO URRUTIA

SIGNATURE:

DISTRIBUTION:

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



RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: QARRY

STATE: IN

COUNTRY: US

LATITUDE/LONGITUDE: 382552.21N/0854224.02W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:

USE TYPE

STAR
STAR
STAR

USE TITLE

DLAMP (RNAV)
MAUDD (RNAV)
MBELL (RNAV)

FAC

PAT

AIRPORT IDENT

KSDF
KSDF
KSDF

CITY

LOUISVILLE
LOUISVILLE
LOUISVILLE

STATE

KY (US)
KY (US)
KY (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/26/2012

DEVELOPED BY:

DATE: 06/10/2011

OFFICE: AJV-352

NAME: MICHAEL CURRAN

APPROVED BY:

DATE: 05/25/2012

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZID

ATC FACILITY: SDF APP CON/ATCT

OTHER:

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RDSTN

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 382322.61N/0851822.95W

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	FAC FEET	MRA	MAA
1	CINCINNATI	CVG	VORTAC	L	221.22	217.22	47.03	47.03		6000	18000
2	LEXINGTON	HYK	VORTAC	L	303.00	303.00		46.90		6000	18000
3	LOUISVILLE	IIU	VORTAC	H	035.68	036.68	21.41	21.41		10000	18000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
HYK	VORTAC	R-303	47	6000	18000
CVG	VORTAC	R-221	48	6000	18000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	REDSTONE	1, 2, 3		KJVV	JEFFERSONVILLE	IN (US)
STAR	CLEGG	1, 2, 3		KLEX	LEXINGTON	KY (US)
STAR	REDSTONE	1, 2, 3		KLOU	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	REDSTONE	1, 2, 3		KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 07/21/2016

REASON FOR REVISION:

FIX TYPE: ADDED WP

FIX USE: ADDED DLAMP (RNAV) STAR.

DEVELOPED BY:

DATE: 02/29/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ROSEWOOD VORTAC

STATE: OH

COUNTRY: US

LATITUDE/LONGITUDE: 401716.08N/0840235.15W

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	FEET	MRA	MAA
1	ROSEWOOD	ROD	VORTAC	H							45000

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	NW	ROD	VORTAC	310.00	130.00	R	1		2800	6000	4	5
2	NE	ROD	VORTAC	063.00	243.00	R	1		2800	6000	4	5
3	NE	ROD	VORTAC	064.96	244.96	R	1		3000	6000	4	5
4	W	ROD	VORTAC	248.49	068.49	R	1		3000	6000	4	5
5	SW		WP	244.00	064.00	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (39-002629)	400822.15N/0835750.07W	1630	2C
1	200	TOWER (39-000804)	401821.00N/0840654.00W	1529	5D
2	200	TOWER (39-000804)	401821.00N/0840654.00W	1529	5D
3	200	TOWER (39-000804)	401821.00N/0840654.00W	1529	5D
4	200	TOWER (39-000804)	401821.00N/0840654.00W	1529	5D
5	200	TOWER (39-000804)	401821.00N/0840654.00W	1529	5D

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 5000.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	GATEWAY			KALN	ALTON/ST LOUIS	IL (US)
DP	GATEWAY			KBLV	BELLEVILLE	IL (US)
DP	GATEWAY			KPCS	CAHOKIA/ST LOUIS	IL (US)
DP	MAREO			KEYE	INDIANAPOLIS	IN (US)
DP	MAREO			KHFY	INDIANAPOLIS	IN (US)
DP	INDY			KIND	INDIANAPOLIS	IN (US)
DP	MAREO			KIND	INDIANAPOLIS	IN (US)
DP	MAREO			KMQJ	INDIANAPOLIS	IN (US)
DP	MAREO			KTYQ	INDIANAPOLIS	IN (US)
DP	MAREO			KUMP	INDIANAPOLIS	IN (US)
DP	MAREO			KGEZ	SHELBYVILLE	IN (US)
DP	CINNATI			KCVG	COVINGTON	KY (US)
DP	HAGOL (RNAV)			KCVG	COVINGTON	KY (US)
DP	ROSEWOOD			KARB	ANN ARBOR	MI (US)
DP	ROSEWOOD			KDET	DETROIT	MI (US)
DP	ROSEWOOD			KDTW	DETROIT	MI (US)
DP	ROSEWOOD			KYIP	DETROIT	MI (US)
DP	ROSEWOOD			KPTK	PONTIAC	MI (US)
DP	GATEWAY			KSTL	ST LOUIS	MO (US)
DP	JHART (RNAV)			KSTL	ST LOUIS	MO (US)
DP	GATEWAY			KSUS	ST LOUIS	MO (US)
DP	OBRLN			KCGF	CLEVELAND	OH (US)
DP	OBRLN			KCLE	CLEVELAND	OH (US)
DP	LOCKBOURNE			KLCK	COLUMBUS	OH (US)
DP	DAYTON			KDAY	DAYTON	OH (US)
DP	OBRLN			K1G1	ELYRIA	OH (US)
DP	OBRLN			KLPR	LORAIN/ELYRIA	OH (US)
DP	OBRLN			K1G5	MEDINA	OH (US)
DP	OBRLN			K7G8	MIDDLEFIELD	OH (US)
DP	OBRLN			K2G1	PAINESVILLE	OH (US)
DP	OBRLN			KLNN	WILLOUGHBY	OH (US)
EN ROUTE	J149					(US)
EN ROUTE	J152					(US)
EN ROUTE	J39					(US)
EN ROUTE	J43					(US)
EN ROUTE	Q65					(US)
EN ROUTE	V210					(US)
EN ROUTE	V277					(US)
EN ROUTE	V383					(US)
EN ROUTE	V416					(US)
EN ROUTE	V435					(US)
EN ROUTE	V47					(US)
EN ROUTE	V542					(US)

QUALITY
2
CHECKED

IAP	ILS OR LOC RWY 5		KFWA	FORT WAYNE	IN (US)
IAP	ILS RWY 5 (CAT II)		KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 25	5	KEDJ	BELLEFONTAINE	OH (US)
IAP	RNAV (GPS) RWY 7	5	KEDJ	BELLEFONTAINE	OH (US)
IAP	VOR/DME RWY 25	4	KEDJ	BELLEFONTAINE	OH (US)
IAP	VOR/DME RWY 7	4	KEDJ	BELLEFONTAINE	OH (US)
IAP	ILS OR LOC RWY 28L		KCMH	COLUMBUS	OH (US)
IAP	ILS RWY 28L (SA CAT 1)		KCMH	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 18		KDAY	DAYTON	OH (US)
IAP	ILS OR LOC RWY 24L		KDAY	DAYTON	OH (US)
IAP	ILS OR LOC RWY 24R		KDAY	DAYTON	OH (US)
IAP	ILS OR LOC RWY 6L	2	KDAY	DAYTON	OH (US)
IAP	ILS RWY 6L (CAT II & III)	2	KDAY	DAYTON	OH (US)
IAP	RNAV (GPS) RWY 18		KDAY	DAYTON	OH (US)
IAP	RNAV (GPS) RWY 24L		KDAY	DAYTON	OH (US)
IAP	RNAV (GPS) Z RWY 24R		KDAY	DAYTON	OH (US)
IAP	RNAV (GPS) RWY 36		KFDY	FINDLAY	OH (US)
IAP	RNAV (GPS) RWY 4		KI95	KENTON	OH (US)
IAP	ILS OR LOC RWY 28		KAOH	LIMA	OH (US)
IAP	RNAV (GPS) RWY 26		KI17	PIQUA	OH (US)
IAP	VOR RWY 26	2	KI17	PIQUA	OH (US)
IAP	RNAV (GPS) RWY 10		KSCA	SIDNEY	OH (US)
IAP	RNAV (GPS) RWY 28		KSCA	SIDNEY	OH (US)
IAP	VOR-A	3	KSCA	SIDNEY	OH (US)
IAP	ILS OR LOC RWY 24		KSGH	SPRINGFIELD	OH (US)
IAP	NDB RWY 24		KSGH	SPRINGFIELD	OH (US)
IAP	VOR/DME RWY 33		KSGH	SPRINGFIELD	OH (US)
IAP	HI-ILS OR LOC RWY 07		KTOL	TOLEDO	OH (US)
IAP	HI-ILS OR LOC RWY 25		KTOL	TOLEDO	OH (US)
IAP	HI-TACAN RWY 07		KTOL	TOLEDO	OH (US)
IAP	HI-TACAN RWY 25		KTOL	TOLEDO	OH (US)
IAP	RNAV (GPS) RWY 20		KI74	URBANA	OH (US)
IAP	VOR-A	1	KI74	URBANA	OH (US)
IAP	RNAV (GPS) RWY 27		KVES	VERSAILLES	OH (US)
IAP	VOR-A		KAXV	WAPAKONETA	OH (US)
STAR	WATSN (RNAV)		KORD	CHICAGO	IL (US)
STAR	CLANG		KEYE	INDIANAPOLIS	IN (US)
STAR	CLANG		KIND	INDIANAPOLIS	IN (US)
STAR	CLANG		KMQJ	INDIANAPOLIS	IN (US)
STAR	REDSTONE		KJVV	JEFFERSONVILLE	IN (US)
STAR	CINCE		KCVG	COVINGTON	KY (US)
STAR	DEBAR		KCVG	COVINGTON	KY (US)
STAR	HEDEE		KK62	FALMOUTH	KY (US)
STAR	REDSTONE		KLOU	LOUISVILLE	KY (US)
STAR	REDSTONE		KSDF	LOUISVILLE	KY (US)
STAR	GEMNI		KDTW	DETROIT	MI (US)
STAR	WEEDA		KDTW	DETROIT	MI (US)
STAR	HEDEE		KI69	BATAVIA	OH (US)
STAR	HEDEE		KLUK	CINCINNATI	OH (US)
STAR	ZABER		KBKL	CLEVELAND	OH (US)
STAR	ZABER		KCGF	CLEVELAND	OH (US)
STAR	ZABER		KCLE	CLEVELAND	OH (US)
STAR	GUNNE		KCMH	COLUMBUS	OH (US)
STAR	GUNNE		KLCK	COLUMBUS	OH (US)
STAR	GUNNE		KOSU	COLUMBUS	OH (US)
STAR	GUNNE		KTZR	COLUMBUS	OH (US)
STAR	ZABER		K1G1	ELYRIA	OH (US)
STAR	HEDEE		KHAO	HAMILTON	OH (US)
STAR	GUNNE		KLHQ	LANCASTER	OH (US)
STAR	ZABER		KLPR	LORAIN/ELYRIA	OH (US)
STAR	ZABER		K1G5	MEDINA	OH (US)
STAR	ZABER		K7G8	MIDDLEFIELD	OH (US)
STAR	GUNNE		KVTA	NEWARK	OH (US)
STAR	ZABER		K2G1	PAINESVILLE	OH (US)
STAR	ZABER		KLNN	WILLOUGHBY	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 25

DATE OF REVISION: 07/21/2016

REASON FOR REVISION:

FIX USE: ADDED KMQJ - CLANG STAR; DELETED DLAMP (RNAV) STAR, STREP (RNAV) DP, KBKL - OBRLN DP AND KSGH VOR RWY 24.

DEVELOPED BY: DATE: 03/01/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY: DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY: COLUMBUS APP CON
OTHER:

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD INFO ONLY

NAME: SHIRT

STATE: OH

COUNTRY: US

LATITUDE/LONGITUDE: 393758.72N/0833416.14W

TYPE: WP, 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	MRA	MAA
1	APPLETON	APE	VORTAC	H	241.93	235.93	55.00	55.00	3000	17500
2	ROSEWOOD	ROD	VORTAC	H	155.83	150.83		44.89	3000	17500
3	CINCINNATI	CVG	VORTAC	L	058.59	054.59		64.40	3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
APE	VORTAC	R-242	55	3000	17500
ROD	VORTAC	R-156	45	3000	17500
CVG	VORTAC	R-059	65	2800	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (39-003557)	393945.69N/0834424.77W	1366	1A

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.

REMARKS:

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V5	1, 2				(US)
IAP	RNAV (GPS) RWY 4			KTZR	COLUMBUS	OH (US)
IAP	RNAV (GPS) RWY 25			KI19	DAYTON	OH (US)
IAP	RNAV (GPS) RWY 19			KI68	LEBANON	OH (US)
IAP	ILS OR LOC RWY 24	1		KSGH	SPRINGFIELD	OH (US)
IAP	RNAV (GPS) RWY 7			KEOP	WAVERLY	OH (US)
STAR	DLAMP (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	REDSTONE	1, 3		KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18

DATE OF REVISION: 07/21/2016

REASON FOR REVISION:

FIX USE: ADDED REDSTONE STAR AND DLAMP (RNAV) STAR.

DEVELOPED BY:

DATE: 01/25/2016

OFFICE: AJV-5412

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY: DAY APP CON
OTHER: CMH APP CON

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SORTT

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 381024.05N/0852647.14W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE

STAR
STAR

USE TITLE
DLAMP (RNAV)
FRIZN (RNAV)

FAC PAT

AIRPORT IDENT
KSD F
KSD F

CITY
LOUISVILLE
LOUISVILLE

STATE
KY (US)
KY (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/21/2016

DEVELOPED BY:

DATE: 02/23/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: STYKR

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 381753.66N/0853931.88W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP
IAP

USE TITLE
RNAV (RNP) Z RWY 17L
RNAV (RNP) Z RWY 17R

FAC PAT

AIRPORT IDENT
KSDF
KSDF

CITY
LOUISVILLE
LOUISVILLE

STATE
KY (US)
KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 07/21/2016

REASON FOR REVISION:

FIX USE: DELETED DLAMP (RNAV) STAR, MAUDD (RNAV) STAR AND MBELL (RNAV) STAR.
REQUIRED CHARTING: REMOVED STAR.

DEVELOPED BY:

DATE: 03/01/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TUPAY

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 380828.91N/0853619.41W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP
IAP

USE TITLE
RNAV (RNP) Z RWY 35L
RNAV (RNP) Z RWY 35R

FAC PAT

AIRPORT IDENT
KSD
KSD

CITY
LOUISVILLE
LOUISVILLE

STATE
KY (US)
KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 07/21/2016

REASON FOR REVISION:

FIX USE: DELETED DLAMP (RNAV) STAR.
REQUIRED CHARTING: REMOVED STAR.

DEVELOPED BY:

DATE: 03/01/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: UKATS

STATE: OH

COUNTRY: US

LATITUDE/LONGITUDE: 400804.48N/0823712.20W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
STAR

USE TITLE
DLAMP (RNAV)

FAC PAT

AIRPORT IDENT CITY
KSDF LOUISVILLE

STATE
KY (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/21/2016

DEVELOPED BY: DATE: 02/23/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY: DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WARSA

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 384547.93N/0845653.65W

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	FAC FEET	MRA	MAA
1	CINCINNATI	CVG	VORTAC	L	221.22	217.22	19.00	19.00		2700	20000
2	FALMOUTH	FLM	VOR/DME	H	287.04	283.04		30.72		2700	20000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CVG	VORTAC	R-221	19	18900	20000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

CINCINNATI (FAC 1) AND FALMOUTH (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V5	1, 2				(US)
STAR	REDSTONE	1, 2		KJVV	JEFFERSONVILLE	IN (US)
STAR	CLEGG	1, 2		KLEX	LEXINGTON	KY (US)
STAR	REDSTONE	1, 2		KLOU	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	REDSTONE	1, 2		KSDF	LOUISVILLE	KY (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13

DATE OF REVISION: 07/21/2016

REASON FOR REVISION:

FIX MAKE-UP: UPDATED FAC 2 MAG/TRUE FROM 287.03/283.03 AND DIS FROM FAC NM FROM 30.71.

DEVELOPED BY: DATE: 03/01/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY: DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZID
ATC FACILITY: CVG APP CON
OTHER:

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: ZOPOM

STATE: KY

COUNTRY: US

LATITUDE/LONGITUDE: 381413.94N/0852703.87W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	LOUISVILLE	IIU	VORTAC	H	035.68	036.68	10.00	10.00		10000	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	NE	IIU	VORTAC	035.68	215.68	L	1-1 1/2	10000 17500	10 17
2	NE		WP	040.68	220.68	R	4	3000 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (21-001039)	382723.00N/0852528.00W	2549	5D
2	200	TOWER (21-000111)	381541.00N/0852543.00W	1409	4D

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

LOUISVILLE (FAC 1) USED TO ESTABLISH FIX COORDINATES
 PRECIPITOUS TERRAIN EVALUATION COMPLETE.
 PAT 1 OBS IS 4166.70 FT INTO SECONDARY.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V5	1				(US)
IAP	RNAV(GPS) RWY 33		2	KLOU	LOUISVILLE	KY (US)
STAR	REDSTONE	1	1	KJVV	JEFFERSONVILLE	IN (US)
STAR	REDSTONE	1	1	KLOU	LOUISVILLE	KY (US)
STAR	DLAMP (RNAV)			KSDF	LOUISVILLE	KY (US)
STAR	REDSTONE	1	1	KSDF	LOUISVILLE	KY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 08/22/2013

REASON FOR REVISION:

REMOVED INT FROM FIX TYPE, REMOVED ABB VORTAC FROM FIX MAKUE-UP

DEVELOPED BY:

DATE: 05/10/2013

OFFICE: AJV-351

NAME: STEVEN SZUKALA

APPROVED BY:

DATE: 06/03/2013

OFFICE: AJV-352

NAME: MIKE CURRIE

SIGNATURE:

DISTRIBUTION:

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

QUALITY
 2
 CHECKED