

RADIO FIX AND HOLDING DATA RECORD

NAME: ENCOE

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 383847.90N/0903744.11W

TYPE: RADAR, 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	ST LOUIS	I-JAK	LOC/DME	L	243.82	242.82	12.96	14.52		3000	8000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-JAK	LOC/DME	R-244	13	5000	8000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-JAK DME: 384440.53N/0902258.43W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LOC RWY 6	1		KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 06/12/2025

REASON FOR REVISION:

1. FIX MAKE-UP: I-JAK LOC/DME MAG/TRUE BRG FROM "243.81/242.81" TO "243.82/242.82" AND DME UPDATED FROM "12.93" TO "12.96"
2. ESV: UPDATED I-JAK MIN ALT FROM "3000" TO "5000"
3. REMARKS: I-JAK DME LOCATION UPDATED FROM "384439.67N/0902300.61W" TO "384440.53N/0902258.43W"
4. FIX USE: REMOVED IAP "ILS OR LOC RWY 6" AT KSTL; ADDED IAP "LOC RWY 6" AT KSTL.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: FORISTELL VORTAC

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 384139.60N/0905816.57W

TYPE:

AIRSPACE DOCKET: 23-ASO-4

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	FORISTELL	FTZ	VORTAC	L						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	FTZ	VORTAC	280.00	100.00	R	1	2400 17500	4 16
2	N	FTZ	VORTAC	004.40	184.40	R	1	2400 6000	4 5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (29-020480)	384257.11N/0910756.62W	1107	1A
1	230	TOWER (29-001838)	383601.96N/0905609.67W	1205	1B
2	200	TOWER (29-000841)	384733.55N/0910155.16W	1103	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
MAGVAR 5E/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J180					(US)
EN ROUTE	J187					(US)
EN ROUTE	T251					(US)
EN ROUTE	V12					(US)
EN ROUTE	V44					(US)
IAP	RNAV (GPS) RWY 24			KFTT	FULTON	MO (US)
IAP	ILS OR LOC RWY 11			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 12L			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 12R			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 24		1	KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 29		1	KSTL	ST LOUIS	MO (US)
IAP	ILS RWY 11 (CAT II - III)			KSTL	ST LOUIS	MO (US)
IAP	ILS RWY 12L (CAT II - III)			KSTL	ST LOUIS	MO (US)
IAP	LOC RWY 6		1	KSTL	ST LOUIS	MO (US)
IAP	RNAV (GPS) RWY 6			KSTL	ST LOUIS	MO (US)
IAP	RNAV (GPS) Y RWY 12R			KSTL	ST LOUIS	MO (US)
IAP	TACAN RWY 30L			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 26L		1	KSUS	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 8R		1	KSUS	ST LOUIS	MO (US)
IAP	RNAV (GPS) RWY 8L			KSUS	ST LOUIS	MO (US)
IAP	RNAV (GPS) RWY 8R			KSUS	ST LOUIS	MO (US)
IAP	VOR-A		2	KFYG	WASHINGTON	MO (US)
STAR	BUUDD (RNAV)			KBLV	BELLEVILLE	IL (US)
STAR	BUUDD (RNAV)			KCPD	CAHOKIA/ST LOUIS	IL (US)
STAR	BRADFORD			KORD	CHICAGO	IL (US)
STAR	SHAIN (RNAV)			KORD	CHICAGO	IL (US)
STAR	TRTLL (RNAV)			KORD	CHICAGO	IL (US)
STAR	KOOOP			KSTL	ST LOUIS	MO (US)
STAR	BUUDD (RNAV)			KSUS	ST LOUIS	MO (US)
STAR	DIRTT (RNAV)			KSUS	ST LOUIS	MO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 22

DATE OF REVISION: 06/12/2025

REASON FOR REVISION:

- DOCKET: ADDED "23-ASO-4"
- CONTROLLING OBS: ADDED PAT 1 "230 TOWER (29-001838)"
- FIX USE: REMOVED IAP "ILS OR LOC RWY 6" AT KSTL; ADDED IAP "LOC RWY 6" AT KSTL.
- CHARTING: ADDED "MILITARY IAP"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

QUALITY
29
CHECKED

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW**APPROVED BY:****DATE:** 05/08/2025**OFFICE:** AJV-A423**NAME:** ALLAN WILL**SIGNATURE:**

QUALITY
29
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ST LOUIS VORTAC **STATE:** MO **COUNTRY:** US **ICAO REGION CODE:** K3
LATITUDE/LONGITUDE: 385138.60N/0902856.46W **TYPE:**
AIRSPACE DOCKET: 23-ASO-4 **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	ST LOUIS	STL	VORTAC	VH						45000

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	STL	VORTAC	150.00	330.00	R	1	3000 6000	4 13

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	385012.00N/0902039.00W	873	4E
1	230	TOWER (29-000371)	384630.66N/0903048.25W	921	1A
1	310	TOWER (17-001582)	390014.00N/0902958.00W	1150	5E

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	LOC RWY 6	KSTL	ST LOUIS	MO (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
STL MAGVAR 1995/E1.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	GATEWAY			KALN	ALTON/ST LOUIS	IL (US)
DP	LINDBERGH			KALN	ALTON/ST LOUIS	IL (US)
DP	OZARK			KALN	ALTON/ST LOUIS	IL (US)
DP	PLESS			KALN	ALTON/ST LOUIS	IL (US)
DP	GATEWAY			KBLV	BELLEVILLE	IL (US)
DP	LINDBERGH			KBLV	BELLEVILLE	IL (US)
DP	OZARK			KBLV	BELLEVILLE	IL (US)
DP	PLESS			KBLV	BELLEVILLE	IL (US)
DP	GATEWAY			KCPs	CAHOKIA/ST LOUIS	IL (US)
DP	LINDBERGH			KCPs	CAHOKIA/ST LOUIS	IL (US)
DP	OZARK			KCPs	CAHOKIA/ST LOUIS	IL (US)
DP	PLESS			KCPs	CAHOKIA/ST LOUIS	IL (US)
DP	ROCKY			KEYE	INDIANAPOLIS	IN (US)
DP	ROCKY			KHFY	INDIANAPOLIS	IN (US)
DP	ROCKY			KIND	INDIANAPOLIS	IN (US)
DP	ROCKY			KMQJ	INDIANAPOLIS	IN (US)
DP	ROCKY			KTYQ	INDIANAPOLIS	IN (US)
DP	ROCKY			KUMP	INDIANAPOLIS	IN (US)
DP	ROCKY			KGEZ	SHELBYVILLE	IN (US)
DP	GATEWAY			KSTL	ST LOUIS	MO (US)
DP	LINDBERGH			KSTL	ST LOUIS	MO (US)
DP	OZARK			KSTL	ST LOUIS	MO (US)
DP	PLESS			KSTL	ST LOUIS	MO (US)
DP	GATEWAY			KSUS	ST LOUIS	MO (US)
DP	LINDBERGH			KSUS	ST LOUIS	MO (US)
DP	OZARK			KSUS	ST LOUIS	MO (US)
DP	PLESS			KSUS	ST LOUIS	MO (US)
EN ROUTE	J101					(US)
EN ROUTE	J110					(US)
EN ROUTE	J134					(US)
EN ROUTE	J151					(US)
EN ROUTE	J19					(US)
EN ROUTE	J233					(US)
EN ROUTE	J24					(US)
EN ROUTE	J45					(US)
EN ROUTE	J8					(US)
EN ROUTE	Q176					(US)
EN ROUTE	Q19					(US)
EN ROUTE	V14					(US)
EN ROUTE	V4					(US)
EN ROUTE	V52					(US)
EN ROUTE	V580					(US)
EN ROUTE	V9					(US)
IAP	ILS OR LOC RWY 29			KALN	ALTON/ST LOUIS	IL (US)
IAP	VOR-A			KALN	ALTON/ST LOUIS	IL (US)
IAP	VOR RWY 18			KSET	ST CHARLES	MO (US)
IAP	ILS OR LOC RWY 12L			KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 12R			KSTL	ST LOUIS	MO (US)

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IAP	ILS OR LOC RWY 24		KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 30L	1	KSTL	ST LOUIS	MO (US)
IAP	ILS RWY 12L (CAT II - III)		KSTL	ST LOUIS	MO (US)
IAP	LOC RWY 6	1	KSTL	ST LOUIS	MO (US)
IAP	TACAN RWY 12R		KSTL	ST LOUIS	MO (US)
IAP	TACAN RWY 30L		KSTL	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 26L		KSUS	ST LOUIS	MO (US)
IAP	ILS OR LOC RWY 8R		KSUS	ST LOUIS	MO (US)
STAR	BUUDD (RNAV)		KBLV	BELLEVILLE	IL (US)
STAR	BUUDD (RNAV)		KCPD	CAHOKIA/ST LOUIS	IL (US)
STAR	BRADFORD		KORD	CHICAGO	IL (US)
STAR	SHAIN (RNAV)		KORD	CHICAGO	IL (US)
STAR	TRTLL (RNAV)		KORD	CHICAGO	IL (US)
STAR	KOOOP		KSTL	ST LOUIS	MO (US)
STAR	BUUDD (RNAV)		KSUS	ST LOUIS	MO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 32

DATE OF REVISION: 06/12/2025

REASON FOR REVISION:

1. DOCKET: ADDED "23-ASO-4"
2. FIX MAKE-UP: UPDATED STL VORTAC CLASS FROM "H" TO "VH"
3. HOLDING: CHANGED PAT 1 MAX TEMPLATE FROM "5" TO "13"
4. CONTROLLING OBS: ADDED PAT 1 "230 TOWER (29-000371)".
5. REQ CIH: ADDED "LOC RWY 6" AT KSTL.
6. FIX USE: REMOVED "ILS OR LOC RWY 6" AT KSTL, "NDB RWY 17" AT KALN, AND "EN ROUTE J35" PER AIRSPACE DOCKET 24-AGL-1; ADDED IAP "LOC RWY 6" AT KSTL.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: UYIDI

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 384438.16N/0902316.99W

TYPE: 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	ST LOUIS	I-JAK	LOC/DME	L	243.82	242.82	0.25	1.79		920	5000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LOC RWY 6	1		KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/12/2025

REASON FOR REVISION:

1. FIX MAKE-UP: I-JAK ADDED CLASS "L"; UPDATED MAG/TRUE BRG FROM "243.81/242.81" TO "243.82/242.82", AND DME FROM "0.22" TO "0.25"
2. FIX USE: REMOVED IAP "ILS OR LOC RWY 6" AT KSTL; ADDED IAP "LOC RWY 6" AT KSTL"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: WOODE

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 384050.85N/0903240.52W

TYPE: RADAR, 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	ST LOUIS	I-JAK	LOC/DME	L	243.82	242.82	8.50	10.06		3000	5000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-JAK DME: 384440.53N/0902258.43W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LOC RWY 6	1		KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 06/12/2025

REASON FOR REVISION:

1. FIX MAKE-UP: I-JAK LOC/DME ADD CLASS "L", UPDATED MAG/TRU BRG FROM "243.81/242.81" TO "243.82/242.82" AND DME FROM "8.47" TO "8.50"
2. REMARKS: I-JAK DME LOCATION UPDATED FROM "384439.67N/0902300.61W" TO "384440.53N/0902258.43W"
3. FIX USE: REMOVED IAP "ILS OR LOC RWY 6" AT KSTL; ADDED IAP "LOC RWY 6" AT KSTL.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

QUALITY
29
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZUDKA

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 384213.18N/0902916.84W

TYPE: WP, RADAR, 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	ST LOUIS	I-JAK	LOC		243.82	242.82		7.07	42949	2400	5000
2	ST LOUIS	I-STL	LOC/DME	L			5.51	5.51		2400	5000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

FAC 2 I-STL REQUIRED TO ALLOW ASSOCIATED PROCEDURAL VALIDATION AND DATA ALIGNMENT DUE TO SHARED DME SOURCES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LOC RWY 6	1		KSTL	ST LOUIS	MO (US)
IAP	RNAV (GPS) RWY 6			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 06/12/2025

REASON FOR REVISION:

1. LAT/LON: RELOCATED 68.55FT NW FROM "384212.83N/0902917.58W" TO "384213.18N/0902916.84W"
2. FIX MAKE-UP: I-JAK UPDATED MAG/TRU BRG FROM "243.81/242.81" TO "243.82/242.82", DIST FROM FAC NM/FEET FROM "7.08/43012" TO "7.07/42949" AND DME FROM "5.49" TO "5.51".
3. FIX USE: REMOVED IAP "ILS OR LOC RWY 6" AT KSTL; ADDED "LOC RWY 6" AT KSTL.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

QUALITY
29
CHECKED