

<b>NAME:</b> BOWLR	<b>STATE:</b> KS	<b>COUNTRY:</b> US	<b>ICAO REGION CODE:</b> K3
<b>LATITUDE/LONGITUDE:</b> 393721.29N/0951100.26W	<b>TYPE:</b> WP, INT, DME		

FIX MAKE-UP FACILITIES:										
FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM FAC FEET	MRA	MAA
1	ST JOSEPH	STJ	VORTAC	H	202.59	210.59	23.52	23.52	3000	17500
2	ROBINSON	RBA	VOR/DME	L	136.89	140.89	17.62	17.62	2600	17500
3	KANSAS CITY	MCJ	VORTAC	H	309.41	314.41	28.97	28.97	3000	17500

PATTERNS:		IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH		HOLDING ALTITUDES		TEMPLATES	
PAT	DIR						TIME	DME	MIN	MAX	MIN	MAX
1	SE	MCI	VORTAC	309.41	309.41	R	1		3000	6000	5	6
2	NW	MCI	VORTAC	309.41	129.41	R	1		4000	6000	5	6
3	NW		WP	312.41	132.41	R		7	4000	6000	9	10
4	SE	RBA	VOR/DME	136.89	316.89	R	1		4000	6000	9	10

**HOLDING RESTRICTIONS:**  
HOLDING LIMITED TO ESTABLISHED PATTERNS.

FIX USE:	USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V61		1, 2, 3				(US)
EN ROUTE	V77		1, 2, 3				(US)
IAP	VOR/DME-A		1, 2, 3	1	KFLV	FORT LEAVENWORTH	KS (US)
IAP	ILS OR LOC RWY 1L		1, 2, 3	2	KMCI	KANSAS CITY	MO (US)
IAP	ILS OR LOC RWY 27 (ALT MISSED APCH)		1, 2, 3	4	KMCI	KANSAS CITY	MO (US)
IAP	RNAV (GPS) Y RWY 1L			3	KMCI	KANSAS CITY	MO (US)
IAP	RNAV (GPS) Y RWY 27			3	KMCI	KANSAS CITY	MO (US)
IAP	RNAV (RNP) Z RWY 1L			3	KMCI	KANSAS CITY	MO (US)
IAP	RNAV (RNP) Z RWY 27			3	KMCI	KANSAS CITY	MO (US)
IAP	ILS OR LOC RWY 35		1		KSTJ	ST JOSEPH	MO (US)
IAP	LOC BC RWY 17		1, 2, 3		KSTJ	ST JOSEPH	MO (US)

**COMPULSORY REPORTING POINT: NO**

RECORD REVISION NUMBER: 7 DATE OF REVISION: 12/07/2017

**REASON FOR REVISION:**  
HOLDING PAT 3 MIN TEMPLATE UPDATED FROM 5 TO 9 (TO KEEP 7NM LEGS [PER 8260.3] AT KMC): MINOR AMDT)  
HOLDING PAT 2 OBS UNCHANGED, UPDATED COORDS FROM 393347N/0951519W TO 393348.07N/0951517.98W AND ELEV FROM 1507 TO 1517  
REMOVED CONTROLLING OBS FOR PAT 3 200KTS

**APPROVED BY:** \_\_\_\_\_ **DATE:** \_\_\_\_\_ **OFFICE:** AJV-5420 **NAME:** JULIE MORGAN

**DISTRIBUTION:** NFDC  
FPO: CEN  
ARTCC: ZKC  
ATC FACILITY: MCI APP CON  
OTHER: STJ APP CON

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CYPRE **STATE:** KS **COUNTRY:** US **ICAO REGION CODE:** K3

**LATITUDE/LONGITUDE:** 390229.65N/0944812.35W **TYPE:** WP, RADAR, 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	FAC FEET	MRA	MAA
1	KANSAS CITY	I-DOT	LOC/DME		190.93	192.93	17.44	17.45		5400	7000
2	BUTLER	BUM	VORTAC	H	335.29	342.29	48.44	48.44		6000	18000

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-DOT	LOC/DME	R-191	18	5400	7000
BUM	VORTAC	R-335	49	6000	18000

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

**REMARKS:**

KANSAS CITY (FAC 1) USED TO ESTABLISH FIX COORDINATES  
 I-DOT DME ANTENNA LOCATION: 391930.07N/0944308.24W  
 8260.54A FORMULA 2-16B USED TO ESTABLISH FIX COORDINATES ON BARO VNAV GLIDEPATH.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 1L	1		KMCI	KANSAS CITY	MO (US)
IAP	RNAV (GPS) Y RWY 1L			KMCI	KANSAS CITY	MO (US)
IAP	RNAV (RNP) Z RWY 1L			KMCI	KANSAS CITY	MO (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 9 **DATE OF REVISION:** 12/07/2017

**REASON FOR REVISION:**

ALIGNED I-DOT FACILITY WITH LATEST REVISION  
 UPDATED I-DOT DME ANTENNA LOCATION REMARK FROM 391930.05N/0944308.31W TO 391930.07N/0944308.24W

**DEVELOPED BY:** **DATE:** 06/08/2017 **OFFICE:** AJV-5422 **NAME:** LUCAS MCCLOUD

**APPROVED BY:** **DATE:** **OFFICE:** AJV-5420 **NAME:** JULIE MORGAN

**SIGNATURE:**

**DISTRIBUTION:** NFDC  
 FPO: CEN  
 ARTCC: ZKC  
 ATC FACILITY: MCI APP CON  
 OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: DASHI

STATE: KS

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 390533.45N/0944718.40W

TYPE: WP, RADAR, 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	FAC FEET	MRA	MAA
1	KANSAS CITY	I-DOT	LOC/DME		190.93	192.93	14.30	14.31		5000	5400

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-DOT	LOC/DME	R-191	15	5000	5400

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

I-DOT DME ANTENNA LOCATION: 391930.07N/0944308.24W  
8260.54A FORMULA 2-16B USED TO ESTABLISH FIX COORDINATES ON BARO VNAV GLIDEPATH.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 1L	1		KMCI	KANSAS CITY	MO (US)
IAP	RNAV (GPS) Y RWY 1L			KMCI	KANSAS CITY	MO (US)
IAP	RNAV (RNP) Z RWY 1L			KMCI	KANSAS CITY	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 12/07/2017

## REASON FOR REVISION:

ALIGNED I-DOT FACILITY WITH LATEST REVISION  
UPDATED I-DOT DME ANTENNA LOCATION REMARK FROM 391930.05N/0944308.31W TO 391930.07N/0944308.24W

DEVELOPED BY:

DATE: 06/09/2017

OFFICE: AJV-5422

NAME: LUCAS MCCLOUD

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: CEN  
ARTCC: ZKC  
ATC FACILITY: MCI APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: JERZE

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 391255.00N/0944508.49W

TYPE: WP, RADAR, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	KANSAS CITY	I-DOT	LOC/DME		190.93	192.93	6.76	6.77	41122	2600	5400

## REMARKS:

I-DOT DME ANTENNA LOCATION: 391930.07N/0944308.24W  
8260.54A FORMULA 2-16B USED TO ESTABLISH PFAF LOCATION.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 1L	1		KMCI	KANSAS CITY	MO (US)
IAP	RNAV (GPS) Y RWY 1L			KMCI	KANSAS CITY	MO (US)
IAP	RNAV (RNP) Z RWY 1L			KMCI	KANSAS CITY	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 12/07/2017

DEVELOPED BY: DATE: 06/07/2017

OFFICE: AJV-5422

NAME: LUCAS MCCLOUD

APPROVED BY: DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: CEN  
ARTCC: ZKC  
ATC FACILITY: MCI APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: JISAN

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 391254.56N/0944508.60W

TYPE: WP, RADAR, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	KANSAS CITY	I-DOT	LOC/DME		190.93	192.93	6.77	6.78	41167	2600	5400

## REMARKS:

I-DOT DME ANTENNA LOCATION: 391930.05N/0944308.31W  
8260.54A FORMULA 2-16B USED TO ESTABLISH PFAF LOCATION.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 1L	1		KMCI	KANSAS CITY	MO (US)
IAP	RNAV (GPS) Y RWY 1L			KMCI	KANSAS CITY	MO (US)
IAP	RNAV (RNP) Z RWY 1L			KMCI	KANSAS CITY	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/07/2013

## REASON FOR REVISION:

ADDED FIX TYPE WP.  
REMOVED FIX TYPE INT.  
REMOVED FAC 2 RIVERSIDE (RIS) VOR/DME DUE TO PROJECTED FACILITY DECOMMISSIONING.  
CHANGED FAC 1 MAG BRG FROM (187.93) TO (190.93). MAGVAR UPDATE.  
UPDATED FIX USE.

DEVELOPED BY:      DATE: 09/01/2012      OFFICE: AJV-353      NAME: BRIAN BICKETT

APPROVED BY:      DATE:      OFFICE: AJV-5420      NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:      NFDC  
FPO: CEN  
ARTCC: ZKC  
ATC FACILITY: MCI APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: MISSR

STATE: MO

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 391141.04N/0944530.27W

TYPE: WP, RADAR, 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 NM	FAC FEET	MRA	MAA
1	KANSAS CITY	I-DOT	LOC/DME		190.23	192.23	8.02	8.03		3000	5400

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

I-DOT DME ANTENNA LOCATION: 391930.07N/0944308.24W  
8260.54A FORMULA 2-16B USED TO ESTABLISH FIX COORDINATES ON BARO VNAV GLIDEPATH.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 1L	1		KMCI	KANSAS CITY	MO (US)
IAP	RNAV (GPS) Y RWY 1L			KMCI	KANSAS CITY	MO (US)
IAP	RNAV (RNP) Z RWY 1L			KMCI	KANSAS CITY	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 12/07/2017

## REASON FOR REVISION:

ALIGNED I-DOT FACILITY WITH LATEST REVISION  
UPDATED I-DOT DME ANTENNA LOCATION REMARK FROM 391930.05N/0944308.31W TO 391930.07N/0944308.24W

DEVELOPED BY:

DATE: 06/09/2017

OFFICE: AJV-5422

NAME: LUCAS MCCLOUD

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: CEN  
ARTCC: ZKC  
ATC FACILITY: MCI APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: WMPOW

STATE: KS

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 390837.24N/0944624.37W

TYPE: WP, RADAR, 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 NM	FAC FEET	MRA	MAA
1	KANSAS CITY	I-DOT	LOC/DME		190.93	192.93	11.16	11.17		4000	5400

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

I-DOT DME ANTENNA LOCATION: 391930.07N/0944308.24W  
8260.54A FORMULA 2-16B USED TO ESTABLISH FIX COORDINATES ON BARO VNAV GLIDEPATH.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 1L	1		KMCI	KANSAS CITY	MO (US)
IAP	RNAV (GPS) Y RWY 1L			KMCI	KANSAS CITY	MO (US)
IAP	RNAV (RNP) Z RWY 1L			KMCI	KANSAS CITY	MO (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 12/07/2017

## REASON FOR REVISION:

ALIGNED I-DOT FACILITY WITH LATEST REVISION  
UPDATED I-DOT DME ANTENNA LOCATION REMARK FROM 391930.05N/0944308.31W TO 391930.07N/0944308.24W

DEVELOPED BY: DATE: 06/09/2017 OFFICE: AJV-5422 NAME: LUCAS MCCLOUD

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION: NFDC  
FPO: CEN  
ARTCC: ZKC  
ATC FACILITY: MCI APP CON  
OTHER: