

RADIO FIX AND HOLDING DATA RECORD

NAME: BRIBE STATE: WI COUNTRY: US ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 424754.00N/0895625.30W 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	NODINE	ODI	VORTAC	VH	133.46	134.46	94.52	94.52	18000	45000
2	DUBUQUE	DBQ	VORTAC	VH	050.79	054.79		41.56	18000	45000
3	NORTHBROOK	OBK	VOR/DME	VH	294.08	292.08	94.79	94.79	18000	45000
4	JANESVILLE	JVL	VOR/DME	L	288.59	291.59	39.67	39.67	18000	33000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
JVL	VOR/DME	R-289	40	18000	33000

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING ALTITUDES DME	MIN	MAX	TEMPLATES MIN	MAX
1	W	JVL	VOR/DME	288.59	108.59	R	1 1/2	18000	33000	18	26	

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ZMBRO (RNAV)			ANE	MINNEAPOLIS	MN (US)
DP	ZMBRO (RNAV)			FCM	MINNEAPOLIS	MN (US)
DP	HTDSH (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	ZMBRO (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	ZMBRO (RNAV)			STP	ST PAUL	MN (US)
EN ROUTE	J30	1, 2				(US)
EN ROUTE	J90	2, 3	1			(US)
STAR	JANESVILLE	2, 3, 4	1	ORD	CHICAGO	IL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 DATE OF REVISION: 10/29/2026

REASON FOR REVISION:

1. DP ADDED TO CHARTING REQUIREMENTS.
2. ADDED DP HTDSH (RNAV) AT KMSP TO FIX USE.
3. ADDED DP ZMBRO (RNAV) AT KMSP, KANE, KFCM AND KSTP TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ZACHARY KRUEGER

APPROVED BY:

DATE: 09/24/2026

OFFICE: AJV-A422

NAME: RAKE MCGRAW

SIGNATURE:

Digitally signed by
CASEY D HILL
Jun 15, 2026

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PEKTE

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 435352.00N/0912843.00W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ZMBRO (RNAV)			ANE	MINNEAPOLIS	MN (US)
DP	ZMBRO (RNAV)			FCM	MINNEAPOLIS	MN (US)
DP	HTDSH (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	ZMBRO (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	ZMBRO (RNAV)			STP	ST PAUL	MN (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 10/29/2026

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ZACHARY KRUEGER

APPROVED BY:

DATE: 09/24/2026

OFFICE: AJV-A422

NAME: RAKE MCGRAW

SIGNATURE:

Digitally signed by

CASEY D HILL

Jun 15, 2026

QUALITY
20
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZMBRO

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 442029.98N/0922654.60W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ZMBRO (RNAV)			ANE	MINNEAPOLIS	MN (US)
DP	ZMBRO (RNAV)			FCM	MINNEAPOLIS	MN (US)
DP	HTDSH (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	ZMBRO (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	ZMBRO (RNAV)			STP	ST PAUL	MN (US)

REQUIRED CHARTING: DP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 10/29/2026

REASON FOR REVISION:

1. FIX USE: DP ZMBRO CHANGED TO DP ZMBRO (RNAV) AT MSP, ANE, FCM, AND STP.
2. REMOVED FAC 1 AND 2 FROM MAKE-UP FACILITIES.
3. REMOVED ESV INFORMATION.
4. REMOVED INT, DME FROM TYPE AND ADDED WP.
5. CHANGED "CONTROLLER" TO "CONTROLLER LOW" IN REQUIRE CHARTING.
6. FIX USE: ADDED DP HTDSH (RNAV) AT MSP.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ZACHARY KRUEGER

APPROVED BY:

DATE: 09/24/2026

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