

RADIO FIX AND HOLDING DATA RECORD

NAME: FARMINGTON VORTAC

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 443751.43N/0931055.39W

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	FARMINGTON	FGT	VORTAC	VH						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	S	FGT	VORTAC	178.03	358.03	R	1	3000 14000	4 10
2	E	FGT	VORTAC	085.00	265.00	L	1	2800 14000	4 10
3	S		WP	178.03	358.03	R		3000 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-000313)	442835.00N/0931107.00W	1474	2C
2	200	TOWER (27-001333)	443417.00N/0930441.00W	1360	5D
3	200	TOWER (27-000313)	442835.00N/0931107.00W	1474	2C

REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED
ASSIGNED FACILITY MAGVAR: 6E (1965)

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V13					(US)
EN ROUTE	V161					(US)
EN ROUTE	V171					(US)
EN ROUTE	V26					(US)
EN ROUTE	V82					(US)
IAP	COPTER ILS OR LOC RWY 10R			FCM	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC RWY 10R			FCM	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) RWY 10L			FCM	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) RWY 28L			FCM	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) RWY 28R			FCM	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC RWY 30		2	LVN	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) RWY 30			LVN	MINNEAPOLIS	MN (US)
IAP	VOR RWY 12		2	LVN	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC RWY 12R		1	MSP	MINNEAPOLIS	MN (US)
IAP	ILS RWY 12R (CAT II - III)		1	MSP	MINNEAPOLIS	MN (US)
IAP	ILS RWY 12R (SA CAT I)		1	MSP	MINNEAPOLIS	MN (US)
IAP	LOC RWY 17		1	MSP	MINNEAPOLIS	MN (US)
IAP	LOC RWY 22		1	MSP	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) RWY 22		3	MSP	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) Z RWY 12R		3	MSP	MINNEAPOLIS	MN (US)
IAP	RNAV (RNP) Y RWY 12R		3	MSP	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC RWY 30			OWA	OWATONNA	MN (US)
IAP	ILS OR LOC RWY 9		2	RKJ	RED WING	MN (US)
IAP	LOC RWY 34			SGS	SOUTH ST PAUL	MN (US)
IAP	RNAV (GPS) RWY 34			SGS	SOUTH ST PAUL	MN (US)
IAP	ILS OR LOC RWY 14			STP	ST PAUL	MN (US)
IAP	ILS OR LOC RWY 32			STP	ST PAUL	MN (US)
STAR	AGUDE			CFE	BUFFALO	MN (US)
STAR	AGUDE			FBL	FARIBAULT	MN (US)
STAR	AGUDE			Gyl	GLENCOE	MN (US)
STAR	AGUDE			MGG	MAPLE LAKE	MN (US)
STAR	AGUDE			ANE	MINNEAPOLIS	MN (US)
STAR	AGUDE			FCM	MINNEAPOLIS	MN (US)
STAR	AGUDE			LVN	MINNEAPOLIS	MN (US)
STAR	AGUDE			MIC	MINNEAPOLIS	MN (US)
STAR	KASPR			MSP	MINNEAPOLIS	MN (US)
STAR	AGUDE			SGS	SOUTH ST PAUL	MN (US)
STAR	AGUDE			21D	ST PAUL	MN (US)
STAR	AGUDE			STP	ST PAUL	MN (US)
STAR	AGUDE			RNH	NEW RICHMOND	WI (US)
STAR	AGUDE			OEO	OSCEOLA	WI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 32 **DATE OF REVISION:** 10/29/2026

REASON FOR REVISION:
1. FIX USE: REMOVED DP ORSKY, ROCHESTER, AND SCHEP FROM KANE, KFCM, KMSP AND KSTP.
2. FIX USE: REMOVED DP COULT, MEADOW LAKE, WLSTN, MINNEAPOLIS AND ZMBRO FROM KMSP.
3. REQUIRED CHARTING: REMOVE DP.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A431	NAME: EMMANUEL GONZALES
APPROVED BY:	DATE: 09/24/2026	OFFICE: AJV-A422	NAME: RAKE MCGRAW
	SIGNATURE:		

RADIO FIX AND HOLDING DATA RECORD

NAME: HALFWAY VOR/DME

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 441216.00N/0932213.80W

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	HALFWAY	FOW	VOR/DME	T							12000

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	FOW	VOR/DME	314.00	134.00	R	1	2600 6000	4 13
2	S	FOW	VOR/DME	196.89	016.89	R	1	2900 6000	4 5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-001169)	441243.90N/0932004.20W	1580	4D
1	310	TOWER (27-001169)	441243.90N/0932004.20W	1580	4D
2	200	TOWER (27-001422)	440246.00N/0932304.00W	1827	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR-A		2	FBL	FARIBAULT	MN (US)
IAP	COPTER ILS Z OR LOC Z RWY 33			MKT	MANKATO	MN (US)
IAP	ILS Y OR LOC Y RWY 33			MKT	MANKATO	MN (US)
IAP	ILS OR LOC RWY 30			LVN	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC RWY 30		1	OWA	OWATONNA	MN (US)
IAP	VOR RWY 12		1	OWA	OWATONNA	MN (US)
STAR	KASPR			MSP	MINNEAPOLIS	MN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 16

DATE OF REVISION: 10/29/2026

REASON FOR REVISION:

1. FIX USE: FIX USE: REMOVED DP ORSKY, ROCHESTER, SCHEP AND ZMBRO FROM KANE, KFCM, KMSP AND KSTP.
2. REQUIRED CHARTING: REMOVED DP.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: EMMANUEL GONZALES

APPROVED BY:

DATE: 09/24/2026

OFFICE: AJV-A422

NAME: RAKE MCGRAW

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: PEDLN **STATE:** MN **COUNTRY:** US **ICAO REGION CODE:** K3
LATITUDE/LONGITUDE: 441209.58N/0934801.40W **TYPE:** WP
AIRSPACE DOCKET: N **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	SNOWZ (RNAV)			MSP	MINNEAPOLIS	MN (US)

REQUIRED CHARTING: DP
COMPULSORY REPORTING POINT: NO
RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 10/29/2026

REASON FOR REVISION:

1. REMOVED DP ORSKY AT KMSP, KANE, KFCM, AND KSTL FROM FIX USE.
2. ADDED DP SNOWZ (RNAV) AT KMSP TO FIX USE.
3. WP ADDED TO TYPE. INT AND DME REMOVED FROM TYPE.
4. FAC 1 AND 2 REMOVED FROM FIX MAKE-UP FACILITIES.
5. ESV'S FOR MSP VOR/DME AND FOW VOR/DME REMOVED.

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:		