

RADIO FIX AND HOLDING DATA RECORD

NAME: FARMINGTON VORTAC

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 443751.40N/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	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	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	WP	178.03	358.03	R	4	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)

PAT 3 CONTROLLING OBSTACLE FOR THE RNAV (RNP) Y RWY 12R INTO KMSP IS 27-001294, 1455 MSL (TOWER) DUE TO A 50 FT REQUIRED VERTICAL ACCURACY ADJUSTMENT - NO CHANGE IN MIN ALTITUDE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ORSKY			KANE	MINNEAPOLIS	MN (US)
DP	ROCHESTER			KANE	MINNEAPOLIS	MN (US)
DP	SCHEP			KANE	MINNEAPOLIS	MN (US)
DP	ORSKY			KFCM	MINNEAPOLIS	MN (US)
DP	ROCHESTER			KFCM	MINNEAPOLIS	MN (US)
DP	SCHEP			KFCM	MINNEAPOLIS	MN (US)
DP	COULT			KMSP	MINNEAPOLIS	MN (US)
DP	DARWIN			KMSP	MINNEAPOLIS	MN (US)
DP	KBREW			KMSP	MINNEAPOLIS	MN (US)
DP	MEADOW LAKE			KMSP	MINNEAPOLIS	MN (US)
DP	MINNEAPOLIS			KMSP	MINNEAPOLIS	MN (US)
DP	ORSKY			KMSP	MINNEAPOLIS	MN (US)
DP	ROCHESTER			KMSP	MINNEAPOLIS	MN (US)
DP	SCHEP			KMSP	MINNEAPOLIS	MN (US)
DP	WLSTN			KMSP	MINNEAPOLIS	MN (US)
DP	ZMBRO			KMSP	MINNEAPOLIS	MN (US)
DP	ORSKY			KSTP	ST PAUL	MN (US)
DP	ROCHESTER			KSTP	ST PAUL	MN (US)
DP	SCHEP			KSTP	ST PAUL	MN (US)
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			KFCM	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC RWY 10R			KFCM	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) RWY 10L			KFCM	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) RWY 28L			KFCM	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) RWY 28R			KFCM	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC RWY 30		2	KLVN	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) RWY 30		2	KLVN	MINNEAPOLIS	MN (US)
IAP	VOR RWY 12		2	KLVN	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC RWY 12L			KMSP	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC RWY 12R		1	KMSP	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC RWY 30R			KMSP	MINNEAPOLIS	MN (US)
IAP	ILS RWY 12L (CAT II - III)			KMSP	MINNEAPOLIS	MN (US)
IAP	ILS RWY 12L (SA CAT I)			KMSP	MINNEAPOLIS	MN (US)
IAP	ILS RWY 12R (CAT II - III)		1	KMSP	MINNEAPOLIS	MN (US)
IAP	ILS RWY 12R (SA CAT I)		1	KMSP	MINNEAPOLIS	MN (US)
IAP	ILS RWY 35 (CAT II - III)			KMSP	MINNEAPOLIS	MN (US)
IAP	ILS RWY 35 (SA CAT I)			KMSP	MINNEAPOLIS	MN (US)

IAP	ILS V RWY 35 (CONVERGING)		KMSP	MINNEAPOLIS	MN (US)
IAP	ILS Z OR LOC RWY 35		KMSP	MINNEAPOLIS	MN (US)
IAP	LOC RWY 17	1	KMSP	MINNEAPOLIS	MN (US)
IAP	LOC RWY 22	1	KMSP	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) RWY 22	3	KMSP	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) Z RWY 12R	3	KMSP	MINNEAPOLIS	MN (US)
IAP	RNAV (RNP) Y RWY 12R	3	KMSP	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC RWY 30		KOWA	OWATONNA	MN (US)
IAP	ILS OR LOC RWY 9	2	KRGK	RED WING	MN (US)
IAP	LOC RWY 34		KSGS	SOUTH ST PAUL	MN (US)
IAP	RNAV (GPS) RWY 34		KSGS	SOUTH ST PAUL	MN (US)
IAP	RNAV (GPS) RWY 32		21D	ST PAUL	MN (US)
IAP	ILS OR LOC RWY 14		KSTP	ST PAUL	MN (US)
IAP	ILS OR LOC RWY 32		KSTP	ST PAUL	MN (US)
STAR	AGUDE		KCFE	BUFFALO	MN (US)
STAR	AGUDE		KFBL	FARIBAULT	MN (US)
STAR	AGUDE		KGYL	GLENCOE	MN (US)
STAR	AGUDE		KMGG	MAPLE LAKE	MN (US)
STAR	AGUDE		KANE	MINNEAPOLIS	MN (US)
STAR	TWOLF		KANE	MINNEAPOLIS	MN (US)
STAR	AGUDE		KFCM	MINNEAPOLIS	MN (US)
STAR	TWOLF		KFCM	MINNEAPOLIS	MN (US)
STAR	AGUDE		KLVN	MINNEAPOLIS	MN (US)
STAR	TWOLF		KLVN	MINNEAPOLIS	MN (US)
STAR	AGUDE		KMIC	MINNEAPOLIS	MN (US)
STAR	TWOLF		KMIC	MINNEAPOLIS	MN (US)
STAR	KASPR		KMSP	MINNEAPOLIS	MN (US)
STAR	TWOLF		KMSP	MINNEAPOLIS	MN (US)
STAR	AGUDE		KSGS	SOUTH ST PAUL	MN (US)
STAR	AGUDE		21D	ST PAUL	MN (US)
STAR	AGUDE		KSTP	ST PAUL	MN (US)
STAR	TWOLF		KSTP	ST PAUL	MN (US)
STAR	AGUDE		KRNH	NEW RICHMOND	WI (US)
STAR	TWOLF		KRNH	NEW RICHMOND	WI (US)
STAR	AGUDE		KOEO	OSCEOLA	WI (US)
STAR	TWOLF		KOEO	OSCEOLA	WI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 27

DATE OF REVISION: 09/08/2022

REASON FOR REVISION:

FIX USE: ADDED KSTP ILS OR LOC RWY 14.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 09/08/2022

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: GOPHER VORTAC **STATE:** MN **COUNTRY:** US **ICAO REGION CODE:** K3

LATITUDE/LONGITUDE: 450844.47N/0932223.45W **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	GOPHER	GEP	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	GEP	VORTAC	297.00	117.00	L	1	3000 14000	4 10
2	W	GEP	VORTAC	264.00	084.00	R	1	2700 14000	4 10
3	NW		WP	297.00	117.00	L	4	3000 14000	5 11
4	N		WP	346.00	166.00	L	4	3100 14000	5 11
5	W		WP	265.00	085.00	R	4	2700 14000	5 11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-000032)	451043.00N/0932100.00W	1530	4D
1	265	TOWER (27-000032)	451043.00N/0932100.00W	1530	4D
2	200	TOWER (27-000032)	451043.00N/0932100.00W	1530	4D
3	200	TOWER (27-000032)	451043.00N/0932100.00W	1530	4D
3	265	TOWER (27-000032)	451043.00N/0932100.00W	1530	4D
4	200	TOWER (27-000032)	451043.00N/0932100.00W	1530	4D
4	310	TOWER (27-000990)	452011.92N/0932331.17W	2048	1A
5	200	TOWER (27-000032)	451043.00N/0932100.00W	1530	4D

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
PAT 3 ATC REQUEST
PAT 4 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
4	RNAV (GPS) RWY 14	KMIC	MINNEAPOLIS	MN (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED
HOLDING PATTERN 1 AND 4 EVALUATED FOR MILITARY AIRCRAFT AT KMSP
ASSIGNED FACILITY MAGVAR: E6 1965

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DES MOINES			KDSM	DES MOINES	IA (US)
DP	COULT			KANE	MINNEAPOLIS	MN (US)
DP	KBREW			KANE	MINNEAPOLIS	MN (US)
DP	WLSTN			KANE	MINNEAPOLIS	MN (US)
DP	COULT			KFCM	MINNEAPOLIS	MN (US)
DP	KBREW			KFCM	MINNEAPOLIS	MN (US)
DP	WLSTN			KFCM	MINNEAPOLIS	MN (US)
DP	COULT			KMSP	MINNEAPOLIS	MN (US)
DP	KBREW			KMSP	MINNEAPOLIS	MN (US)
DP	LEINY (RNAV)			KMSP	MINNEAPOLIS	MN (US)
DP	WLSTN			KMSP	MINNEAPOLIS	MN (US)
DP	COULT			KSTP	ST PAUL	MN (US)
DP	KBREW			KSTP	ST PAUL	MN (US)
DP	WLSTN			KSTP	ST PAUL	MN (US)
DP	BLUFS			KOMA	OMAHA	NE (US)
EN ROUTE	J114					(US)
EN ROUTE	J21					(US)
EN ROUTE	J25					(US)
EN ROUTE	J36					(US)
EN ROUTE	J68					(US)
EN ROUTE	J70					(US)
EN ROUTE	T330					(US)
EN ROUTE	T383					(US)
EN ROUTE	V148					(US)
EN ROUTE	V161					(US)
EN ROUTE	V2					(US)
EN ROUTE	V218					(US)
EN ROUTE	V413					(US)
EN ROUTE	V505					(US)

EN ROUTE	V510			(US)
EN ROUTE	V78			(US)
EN ROUTE	V82			(US)
EN ROUTE	V97			(US)
IAP	VOR -A		KCFE	BUFFALO MN (US)
IAP	RNAV (GPS) RWY 34		KCBG	CAMBRIDGE MN (US)
IAP	VOR-A		KMGG	MAPLE LAKE MN (US)
IAP	ILS OR LOC RWY 27	2	KANE	MINNEAPOLIS MN (US)
IAP	RNAV (GPS) RWY 18		KANE	MINNEAPOLIS MN (US)
IAP	RNAV (GPS) RWY 27	5	KANE	MINNEAPOLIS MN (US)
IAP	VOR RWY 9	2	KANE	MINNEAPOLIS MN (US)
IAP	COPTER ILS OR LOC RWY 10R		KFCM	MINNEAPOLIS MN (US)
IAP	ILS OR LOC RWY 10R		KFCM	MINNEAPOLIS MN (US)
IAP	RNAV (GPS) RWY 10L		KFCM	MINNEAPOLIS MN (US)
IAP	RNAV (GPS) RWY 10R		KFCM	MINNEAPOLIS MN (US)
IAP	VOR RWY 10R		KFCM	MINNEAPOLIS MN (US)
IAP	ILS OR LOC RWY 30		KLVN	MINNEAPOLIS MN (US)
IAP	RNAV (GPS) RWY 14	4	KMIC	MINNEAPOLIS MN (US)
IAP	ILS RWY 35 (CAT II/III)		KMSP	MINNEAPOLIS MN (US)
IAP	ILS RWY 35 (SA CAT I)		KMSP	MINNEAPOLIS MN (US)
IAP	ILS OR LOC RWY 12L (ALT MA)		KMSP	MINNEAPOLIS MN (US)
IAP	ILS OR LOC RWY 30L		KMSP	MINNEAPOLIS MN (US)
IAP	ILS OR LOC RWY 30R	1	KMSP	MINNEAPOLIS MN (US)
IAP	ILS RWY 12L (CAT II) (ALT MA)		KMSP	MINNEAPOLIS MN (US)
IAP	ILS RWY 12L (CAT III) (ALT MA)		KMSP	MINNEAPOLIS MN (US)
IAP	ILS RWY 12L (SA CAT I) (ALT MA)		KMSP	MINNEAPOLIS MN (US)
IAP	ILS RWY 30L (CAT II)		KMSP	MINNEAPOLIS MN (US)
IAP	ILS V RWY 35 (CONVERGING)		KMSP	MINNEAPOLIS MN (US)
IAP	ILS Z OR LOC RWY 35		KMSP	MINNEAPOLIS MN (US)
IAP	LOC RWY 17		KMSP	MINNEAPOLIS MN (US)
IAP	LOC RWY 22		KMSP	MINNEAPOLIS MN (US)
IAP	LOC RWY 4	1	KMSP	MINNEAPOLIS MN (US)
IAP	RNAV (GPS) RWY 4	3	KMSP	MINNEAPOLIS MN (US)
IAP	RNAV (GPS) Z RWY 30R	3	KMSP	MINNEAPOLIS MN (US)
IAP	RNAV (GPS) Z RWY 35	3	KMSP	MINNEAPOLIS MN (US)
IAP	RNAV (RNP) Y RWY 30R	3	KMSP	MINNEAPOLIS MN (US)
IAP	ILS OR LOC RWY 9		KRGK	RED WING MN (US)
IAP	LOC RWY 34		KSGS	SOUTH ST PAUL MN (US)
IAP	ILS OR LOC RWY 31		KSTC	ST CLOUD MN (US)
IAP	VOR RWY 31		KSTC	ST CLOUD MN (US)
IAP	ILS OR LOC RWY 14		KSTP	ST PAUL MN (US)
IAP	ILS OR LOC RWY 32		KSTP	ST PAUL MN (US)
IAP	RNAV (GPS) RWY 14		KSTP	ST PAUL MN (US)
STAR	AGUDE		KCFE	BUFFALO MN (US)
STAR	AGUDE		KFBL	FARIBAULT MN (US)
STAR	AGUDE		KGYL	GLENCOE MN (US)
STAR	AGUDE		KMGG	MAPLE LAKE MN (US)
STAR	AGUDE		KANE	MINNEAPOLIS MN (US)
STAR	ENCEE (RNAV)		KANE	MINNEAPOLIS MN (US)
STAR	GOPHER		KANE	MINNEAPOLIS MN (US)
STAR	TWOLF		KANE	MINNEAPOLIS MN (US)
STAR	AGUDE		KFCM	MINNEAPOLIS MN (US)
STAR	ENCEE (RNAV)		KFCM	MINNEAPOLIS MN (US)
STAR	GOPHER		KFCM	MINNEAPOLIS MN (US)
STAR	TWOLF		KFCM	MINNEAPOLIS MN (US)
STAR	AGUDE		KLVN	MINNEAPOLIS MN (US)
STAR	ENCEE (RNAV)		KLVN	MINNEAPOLIS MN (US)
STAR	GOPHER		KLVN	MINNEAPOLIS MN (US)
STAR	TWOLF		KLVN	MINNEAPOLIS MN (US)
STAR	AGUDE		KMIC	MINNEAPOLIS MN (US)
STAR	ENCEE (RNAV)		KMIC	MINNEAPOLIS MN (US)
STAR	GOPHER		KMIC	MINNEAPOLIS MN (US)
STAR	TWOLF		KMIC	MINNEAPOLIS MN (US)
STAR	BAINY (RNAV)		KMSP	MINNEAPOLIS MN (US)
STAR	EAU CLAIRE		KMSP	MINNEAPOLIS MN (US)
STAR	GOPHER		KMSP	MINNEAPOLIS MN (US)
STAR	TWOLF		KMSP	MINNEAPOLIS MN (US)
STAR	AGUDE		KSGS	SOUTH ST PAUL MN (US)
STAR	AGUDE		21D	ST PAUL MN (US)
STAR	AGUDE		KSTP	ST PAUL MN (US)
STAR	ENCEE (RNAV)		KSTP	ST PAUL MN (US)
STAR	GOPHER		KSTP	ST PAUL MN (US)
STAR	TWOLF		KSTP	ST PAUL MN (US)
STAR	AGUDE		KRNH	NEW RICHMOND WI (US)
STAR	TWOLF		KRNH	NEW RICHMOND WI (US)
STAR	AGUDE		KOEO	OSCEOLA WI (US)
STAR	TWOLF		KOEO	OSCEOLA WI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 27

DATE OF REVISION: 02/25/2021

REASON FOR REVISION:

DELETED IAP NDB RWY 34 KCBG FROM FIX USE.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A422	NAME: JOSHUA DUGAN
APPROVED BY:	DATE:	OFFICE: AJV-A420	NAME: MARLON ROBINSON
	SIGNATURE:		

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: MSP APP CON, MSP TOWER
OTHER: