





**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 31

**DATE OF REVISION:** 03/19/2026

**REASON FOR REVISION:**

FIX USE: REMOVED DP ORSKY, ROCHESTER, AND SCHEP FROM KANE, KFCM, KMSP AND KSTP; REMOVED DP COULT, MEADOW LAKE, WLSTN, MINNEAPOLIS AND ZMBRO, ILS OR LOC RWY 12L, ILS OR LOC RWY 30R, ILS RWY 12L (CATII-III), ISL RWY 12L (SA CAT I), ILS RWY 35 (CATII-III), ILS RWY 35 (SA CAT I), ILS V RWY 35 (CONVERING), ILS Z OR LOC RWY 35 FROM KMSP.  
REQUIRED CHARTING: REMOVE DP.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A431

**NAME:** DEXTER SWEETING

**APPROVED BY:**

**DATE:** 02/12/2026

**OFFICE:** AJV-A433

**NAME:** ROBERT HAMILTON

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** FLYING CLOUD VOR/DME      **STATE:** MN      **COUNTRY:** US      **ICAO REGION CODE:** K3

**LATITUDE/LONGITUDE:** 444931.26N/0932633.68W      **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	MRA	MAA
							NM	FEET		
1	FLYING CLOUD	FCM	VOR/DME	L						17500

**HOLDING:**      **HOLDING TYPE OF ACTION:** MODIFY

**PATTERNS:**

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH	HOLDING ALTITUDES	TEMPLATES		
							DME	MIN	MAX	MIN	MAX
1	W	FCM	VOR/DME	265.00	085.00	R	1	2600	12000	4	9

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	444512.00N/0932354.00W	1260	4B
1	310	TOWER (27-001132)	444641.60N/0934449.00W	1449	4D

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 12R (ALT MA)	KMSP	MINNEAPOLIS	MN (US)
1	COPTER ILS OR LOC RWY 10R	KFCM	MINNEAPOLIS	MN (US)
1	VOR RWY 10R	KFCM	MINNEAPOLIS	MN (US)
1	ILS RWY 12R (CAT II - III) (ALT MA)	KMSP	MINNEAPOLIS	MN (US)
1	ILS RWY 12R (SA CAT I) (ALT MA)	KMSP	MINNEAPOLIS	MN (US)
1	ILS OR LOC RWY 10R	KFCM	MINNEAPOLIS	MN (US)

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
ASSIGNED FACILITY MAG VAR: E1/2010.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V412					(US)
IAP	VOR-A			KCFE	BUFFALO	MN (US)
IAP	COPTER ILS OR LOC RWY 10R		1	KFCM	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC RWY 10R		1	KFCM	MINNEAPOLIS	MN (US)
IAP	VOR RWY 10R		1	KFCM	MINNEAPOLIS	MN (US)
IAP	VOR/DME RWY 36		1	KFCM	MINNEAPOLIS	MN (US)
IAP	VOR RWY 12			KLVN	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC RWY 12R (ALT MA)		1	KMSP	MINNEAPOLIS	MN (US)
IAP	ILS RWY 12R (CAT II - III) (ALT MA)		1	KMSP	MINNEAPOLIS	MN (US)
IAP	ILS RWY 12R (SA CAT I) (ALT MA)		1	KMSP	MINNEAPOLIS	MN (US)
IAP	LOC RWY 17			KMSP	MINNEAPOLIS	MN (US)
IAP	ILS OR LOC 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	AGUDE			KFCM	MINNEAPOLIS	MN (US)
STAR	AGUDE			KLVN	MINNEAPOLIS	MN (US)
STAR	AGUDE			KMIC	MINNEAPOLIS	MN (US)
STAR	KASPR			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	AGUDE			KRNH	NEW RICHMOND	WI (US)
STAR	AGUDE			KOEO	OSCEOLA	WI (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 24

**DATE OF REVISION:** 03/19/2026

**REASON FOR REVISION:**

CONTROLLING OBSTUCTIONS: UPDATED PAT 1 200 AAO COORDINATES FROM "445136.00N/0933551.00W" TO "444512.00N/0932354.00W  
ELEVATION FROM 1247 TO 1260, ACCURACY CODE FROM 4E TO 4B; UPDATED PAT 1 310 TOWER COORDINATES FROM  
"444640.86N/0934449.86W" TO "444641.60N/0934449.00W" ELEVATION FROM 1450 TO 1449 AND ACCURACY CODE FROM 5D TO 4D.  
PROCEDURE REQUIRING CLIMB-IN-HOLD: ADDED ILS OR LOC RWY 12R (ALT MA), ILS RWY 12 (CAT II-III)(ALT MA) AND ILS RWY 12R (SA  
CAT I)(ALT MA) AT KMSP.  
FIX USE: REMOVED DP COULT, KBREW AND ROCHESTER FROM KANE, KFCM, KMSP AND KSTP; REMOVED DP SCHEP, SMERF (RNAV),  
ZMBRO, ILS OR LOC RWY 36L (ALT MA), ILS RWY 36L (CAT II) FROM KMSP.  
REQUIRED CHARTING: REMOVED DP.

<b>INITIATED BY:</b>	<b>DATE:</b>	<b>ORGANIZATION:</b>	<b>NAME:</b>
<b>OFFICE OF PRIMARY RESPONSIBILITY:</b>		AJV-A431	<b>NAME:</b> DEXTER SWEETING
<b>APPROVED BY:</b>	<b>DATE:</b> 02/12/2026	<b>OFFICE:</b> AJV-A433	<b>NAME:</b> ROBERT HAMILTON
	<b>SIGNATURE:</b>		







