

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: 22-AGL-37 **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	FLYING CLOUD	FCM	VOR/DME	L						17500

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	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	445136.00N/0933551.00W	1247	4E
1	310	TOWER (27-001132)	444640.86N/0934449.86W	1450	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	COPTER ILS OR LOC RWY 10R	KFCM	MINNEAPOLIS	MN (US)
1	VOR RWY 10R	KFCM	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
DP	COULT			KANE	MINNEAPOLIS	MN (US)
DP	DARWIN			KANE	MINNEAPOLIS	MN (US)
DP	KBREW			KANE	MINNEAPOLIS	MN (US)
DP	ROCHESTER			KANE	MINNEAPOLIS	MN (US)
DP	COULT			KFCM	MINNEAPOLIS	MN (US)
DP	DARWIN			KFCM	MINNEAPOLIS	MN (US)
DP	KBREW			KFCM	MINNEAPOLIS	MN (US)
DP	ROCHESTER			KFCM	MINNEAPOLIS	MN (US)
DP	COULT			KMSP	MINNEAPOLIS	MN (US)
DP	DARWIN			KMSP	MINNEAPOLIS	MN (US)
DP	KBREW			KMSP	MINNEAPOLIS	MN (US)
DP	ROCHESTER			KMSP	MINNEAPOLIS	MN (US)
DP	SCHep			KMSP	MINNEAPOLIS	MN (US)
DP	SMERF (RNAV)			KMSP	MINNEAPOLIS	MN (US)
DP	ZMBRO			KMSP	MINNEAPOLIS	MN (US)
DP	COULT			KSTP	ST PAUL	MN (US)
DP	DARWIN			KSTP	ST PAUL	MN (US)
DP	KBREW			KSTP	ST PAUL	MN (US)
DP	ROCHESTER			KSTP	ST PAUL	MN (US)
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 OR LOC RWY 30L (ALT MA)			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	ILS RWY 30L (CAT II)			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)

QUALITY
13
CHECKED

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: DP, STAR, IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 22

DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

AIRSPACE DOCKET: UPDATED FROM "21-ACE-4" TO "22-AGL-37"
FIX USE: REMOVED "V456"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: COLIN CAMPBELL

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE: *Digitally signed by*

ALLAN WILL

Mar 29, 2023

QUALITY
13
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WULEP

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 443549.25N/0933716.29W

TYPE: WP, INT

AIRSPACE DOCKET: 22-AGL-37

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	FARMINGTON	FGT	VORTAC	VH	257.98	263.98		18.93		2900	17500
2	FLYING CLOUD	FCM	VOR/DME	L	208.20	209.20		15.69		2900	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

FARMINGTON (FAC 1) AND FLYING CLOUD (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T400					(US)
EN ROUTE	V26	1, 2				(US)
IAP	RNAV (GPS) RWY 33			KHCD	HUTCHINSON	MN (US)
IAP	RNAV (GPS) RWY 36			KFCM	MINNEAPOLIS	MN (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

AIRSPACE DOCKET: UPDATED FROM "21-AGL-5" TO "22-AGL-37"

FIX MAKE-UP FACILITIES: FARMINGTON VORTAC CLASS UPDATED FROM "H" TO "VH"

FIX USE: REMOVED "V456"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: COLIN CAMPBELL

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

ALLAN WILL

Mar 29, 2023

QUALITY
13
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZANNA

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 442434.39N/0934559.22W

TYPE: WP

AIRSPACE DOCKET: 22-AGL-37

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
EN ROUTE
IAP

USE TITLE

T400
RNAV (GPS) RWY 31

FAC

PAT

AIRPORT IDENT

CITY

STATE

(US)
MN (US)

KGYL

GLENCOE

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

FIX TYPE: REMOVED "DME"

AIRSPACE DOCKET: UPDATED FROM "21-AGL-5" TO "22-AGL-37"

FIX MAKE-UP FACILITIES: REMOVED FAC 1, MANKATO VOR/DME

REMARKS: REMOVED "MINNEAPOLIS, MN - SATELLITE ARRIVAL GATE (ON V456)"

FIX USE: REMOVED "V456"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: COLIN CAMPBELL

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

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Mar 29, 2023

QUALITY
13
CHECKED