NAME: DRAIL STATE: MN **COUNTRY: US ICAO REGION CODE: K3** 

LATITUDE/LONGITUDE: 444929.16N/0935526.19W TYPE: WP. DME

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

**FIX MAKE-UP FACILITIES:** 

FAC NAME **IDENT TYPE CLASS MAG TRUE** DME DIST FROM FAC MRA MAA BRG **BRG** NM FEET **REDWOOD FALLS RWF** VOR/DME 060.00 067.00 55.87 55.87 4000 17500 FLYING CLOUD **FCM** VOR/DME 269.07 270.07 20.55 20.55 2800 17500

EXPANDED SERVICE VOLUME (ESV):

RADIAL/BEARING **DISTANCE MIN ALTITUDE MAX ALTITUDE** VOR/DME RWF R-060 56 4000 15600

**HOLDING:** HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

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

**FIX USE:** 

**USE TYPE USE TITLE** FAC PAT AIRPORT IDENT CITY **STATE EN ROUTE** V412 (US) 1, 2 RNAV (GPS) RWY 36 RNAV (GPS) RWY 10L MN (US) MN (US) **BUFFALO** IAP **KCFF** IAP MINNEAPOLIS KFCM

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

**COMPULSORY REPORTING POINT: NO** 

**RECORD REVISION NUMBER: 5 DATE OF REVISION: 12/02/2021** 

**REASON FOR REVISION:** 

FIX MAKE-UP FACILITIES: CHANGED FAC 1 (RWF) MRA FROM 2800 TO 4000. ESV: CHANGED RWF VOR/DME MIN/MAX ALTITUDE FROM 2800/14500 TO 4000/15600. REQUIRED CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW.

**INITIATED BY: ORGANIZATION:** DATE: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 **NAME: BARRY SMITH** 

**APPROVED BY: DATE:** 06/28/2021 OFFICE: AJV-A420 **NAME: MARLON ROBINSON** 

SIGNATURE:

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NAME: HUBEV STATE: MN **COUNTRY: US ICAO REGION CODE: K3** 

LATITUDE/LONGITUDE: 445807.73N/0935048.70W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

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

**PATTERNS:** 

LEG LENGTH HOLDING ALTITUDES TEMPLATES **IDENT TYPF** RAD/CRS/BRG **CRS** TURN PAT DIR (LORR) TIME DME INBOUND MAX MAX MIN MIN WP S 179.78 3000 359.78 6000 6

**CONTROLLING OBSTRUCTIONS:** 

PAT AIRSPEED OBSTRUCTION **COORDINATES ELEVATION ACCURACY CODE** 

TOWER (27-001784) 445625.00N/0935544.00W 1310

**HOLDING RESTRICTIONS:** 

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

**USE TYPE USE TITLE FAC** PAT AIRPORT IDENT CITY **STATE** RNAV (GPS) RWY 36 **BUFFALO** MN (US) **KCFE** 

**REQUIRED CHARTING: IAP** 

**COMPULSORY REPORTING POINT: NO** 

**RECORD REVISION NUMBER: 1 DATE OF REVISION: 06/22/2017** 

**REASON FOR REVISION:** 

UPDATED HOLDING PAT 1 OBSTACLE ELEVATION FROM 1649 TO 1310 AND ACCURACY CODE FROM 4D TO 5D.

UPDATED HOLDING PAT 1 RAD AND CRS INBOUND FROM 179.96 AND 359.76 TO 179.78 AND 359.78.

**INITIATED BY:** DATE: **ORGANIZATION:** NAME:

**DEVELOPED BY: DATE:** 02/02/2017 OFFICE: AJV-5433 NAME: BEV L BORDY (CHRISTINE BAYSE)

**APPROVED BY:** DATE: OFFICE: AJV-5430 **NAME: PATRICK MULQUEEN** 

SIGNATURE:

**DISTRIBUTION: NFDC** 

FPO: CEN ARTCC: ZMP

ATC FACILITY: MSP APP CON

OTHER:

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**NAME: JONNA** STATE: MN **COUNTRY: US ICAO REGION CODE: K3** 

LATITUDE/LONGITUDE: 444915.61N/0934215.16W TYPE: WP

**AIRSPACE DOCKET: 23-AGL-18** FIX TYPE OF ACTION: MODIFY

**HOLDING TYPE OF ACTION: NO CHANGE** HOLDING:

**FIX USE:** 

**USE TITLE AIRPORT IDENT** CITY **USE TYPE** FAC PAT **STATE** RNAV (GPS) RWY 36 RNAV (GPS) RWY 9 BUFFALO MN (US) MN (US) IAP **KCFE** ΙΑΡ KANĒ MINNEAPOLIS

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

**COMPULSORY REPORTING POINT: NO** 

**RECORD REVISION NUMBER: 5 DATE OF REVISION: 05/16/2024** 

**REASON FOR REVISION:** 

TYPE: REMOVED "INT" AND "DME" AIRSPACE DOCKET: ADDED 23-AGL-18

FIX MAKE-UP FACILITIES: REMOVED FARMINGTON (FAC 1) VORTAC, GOPHER (FAC 2) VORTAC AND DARWIN (FAC 3) VORTAC REMARKS: REMOVED "FARMINGTON (FAC 1) AND GOPHER (FAC 2) USED TO ESTABLISH FIX COORDINATES."

FIX USE: REMOVED V171

REQUIRED CHARTING: CHANGED "CONTROLLER" TO "CONTROLLER LOW"

**INITIATED BY:** DATE: **ORGANIZATION:** NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 **NAME: GALE SHELTON** 

APPROVED BY: **DATE:** 05/16/2024 OFFICE: AJV-A423 **NAME: ALLAN WILL** 

SIGNATURE:

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NAME: MAYER STATE: MN COUNTRY: US ICAO REGION CODE: K3

**LATITUDE/LONGITUDE:** 445504.77N/0935829.08W **TYPE:** WP. DME

AIRSPACE DOCKET: 23-AGL-18 FIX TYPE OF ACTION: MODIFY

**FIX MAKE-UP FACILITIES:** 

FAC NAME **IDENT TYPE CLASS MAG** TRUE DME DIST FROM FAC MRA MAA **BRG BRG** NM FEET **GOPHER GEP VORTAC** 236.12 242.12 29.01 29.01 2900 17500

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

FIX USE: **USE TYPE USE TITLE** FAC PAT **AIRPORT IDENT** STATE **EN ROUTE** V148 (US) V148
RNAV (GPS) RWY 36
RNAV (GPS) RWY 13
RNAV (GPS) RWY 31
RNAV (GPS) RWY 10L
RNAV (GPS) RWY 10L
RNAV (GPS) RWY 10R
ENCEE (RNAV)
ENCEE (RNAV)
ENCEE (RNAV)
ENCEE (RNAV) (US) MN (US) IAP **KCFE BUFFALO** IAP KGYL **GLENCOE** ΙΑΡ KLJF LITCHFIELD IAP KFCM MINNEAPOLIS IAP KFCM MINNEAPOLIS STAR MINNEAPOLIS KANE **STAR KFCM MINNEAPOLIS** STAR KLVN MINNEAPOLIS MINNEAPOLIS STAR **KMIC ENCEE (RNAV) KSTP** ST PAUL **STAR** 

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

**COMPULSORY REPORTING POINT: NO** 

RECORD REVISION NUMBER: 8 DATE OF REVISION: 05/16/2024

**REASON FOR REVISION:** 

TYPE: REMOVED INT

AIRSPACE DOCKET: ADDED 23-AGL-18

FIX MAKE-UP FACILITIES: REMOVED FAC 2 DARWIN (DWN) VORTAC

REMARKS: REMOVED GOPHER (FAC 1) AND DARWIN (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE: REMOVED V171, REMOVED FAC 2 DARWIN (DWN) VORTAC FROM V148 REQUIRED CHARTING: CHANGED "CONTROLLER" TO "CONTROLLER LOW"

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 NAME: GALE SHELTON

APPROVED BY: DATE: 05/16/2024 OFFICE: AJV-A423 NAME: ALLAN WILL

SIGNATURE:

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NAME: SODIE STATE: MN COUNTRY: US ICAO REGION CODE: K3

**LATITUDE/LONGITUDE**: 452207.48N/0935217.11W **TYPE**: WP. DME

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

**FIX MAKE-UP FACILITIES:** 

FAC NAME **IDENT TYPE CLASS MAG TRUE** DME **DIST FROM FAC** MRA MAA **BRG BRG** NM FEET **GOPHER GEP VORTAC** 296.55 302.55 25.00 25.00 3400 17500

HOLDING: HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT DIR **IDENT** TYPE RAD/CRS/BRG CRS **TURN** LEG LENGTH HOLDING ALTITUDES TEMPLATES (L OR R) TIME DME INBOUND MIN MAX MIN MAX NW WP 297.00 3400 117.00 6000 6

CONTROLLING OBSTRUCTIONS:

PAT AIRSPEED OBSTRUCTION COORDINATES ELEVATION ACCURACY CODE

200 STACK (27-000477) 452245.00N/0935345.00W 1620 1C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

**USE TYPE** STATE **USE TITLE** FAC PAT AIRPORT IDENT CITY (US) MN (US) **EN ROUTE** V2 RNAV (GPS) RWY 36 IAP 1 **KCFF** BUFFALO IAP RNAV (GPS) RWY 9 **KANE MINNEAPOLIS** MN (US)

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

**COMPULSORY REPORTING POINT: NO** 

RECORD REVISION NUMBER: 4 DATE OF REVISION: 05/16/2024

REASON FOR REVISION:

TYPE: REMOVED INT
FIX MAKE-UP FACILITIES: (FAC 2) REMOVED DARWIN (DWN) VORTAC
HOLDING: (PAT 1) UPDATED IDENT "GEP" TO TYPE "WP"

REMARKS: REMOVED "GOPHER (FAC 1) AND DARWIN (FAC 2) USED TO ESTABLISH FIX COORDINATES"

FIX USE: REMOVED FAC 2 FROM V2
REQUIRED CHARTING: UPDATED "CONTROLLER" TO "CONTROLLER LOW"

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 NAME: GALE SHELTON

APPROVED BY: DATE: 05/16/2024 OFFICE: AJV-A423 NAME: ALLAN WILL

SIGNATURE:

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NAME: YABFE STATE: MN **COUNTRY: US ICAO REGION CODE: K3** 

LATITUDE/LONGITUDE: 450413.40N/0935041.72W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

**HOLDING TYPE OF ACTION: NO CHANGE HOLDING:** 

FIX USE:

**USE TITLE** AIRPORT IDENT **USE TYPE** IAP FAC PAT CITY **STATE** RNAV (GPS) RWY 36 BUFFALO MN (US) KCFE

**REQUIRED CHARTING: IAP** 

**COMPULSORY REPORTING POINT: NO** 

**RECORD REVISION NUMBER: 1 DATE OF REVISION: 06/22/2017** 

**REASON FOR REVISION:** 

UPDATED LATTITUDE/LONGITUDE FROM "450413.42N/0935041.87W" TO "450413.40N/0935041.72W".

FIX MOVED 11 FT EAST

REMOVED REMARK "RNP CRITERIA APPLIED".

**INITIATED BY:** DATE: ORGANIZATION: NAME:

**DEVELOPED BY: DATE:** 02/02/2017 OFFICE: AJV-5433 NAME: BEV L BORDY (CHRISTINE BAYSE)

**APPROVED BY:** DATE: OFFICE: AJV-5430 **NAME: PATRICK MULQUEEN** 

SIGNATURE:

**DISTRIBUTION:** NFDC

FPO: CEN

ARTCC: ZMP ATC FACILITY: MSP APP CON

OTHER:

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NAME: ZIKPO STATE: MN **COUNTRY: US ICAO REGION CODE: K3** 

LATITUDE/LONGITUDE: 451615.89N/0935028.32W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: ESTABLISH

HOLDING: **HOLDING TYPE OF ACTION:** 

FIX USE:

**USE TITLE** RNAV (GPS) RWY 36 CITY BUFFALO USE TYPE IAP FAC AIRPORT IDENT STATE MN (US) PAT KCFE

**REQUIRED CHARTING: IAP** 

**COMPULSORY REPORTING POINT: NO** 

RECORD REVISION NUMBER: ORIG **DATE OF REVISION: 05/05/2011** 

**INITIATED BY:** DATE: ORGANIZATION: NAME:

**DEVELOPED BY: DATE:** 10/20/2010 OFFICE: AVN-120 **NAME: DAN CAIRNS** 

APPROVED BY: **DATE:** 02/18/2011 OFFICE: AVN-120 **NAME: GREGORY YAMAMOTO** 

SIGNATURE:

NFDC FPO: CEN **DISTRIBUTION:** 

ARTCC: ZMP ATC FACILITY: MSP APP CON

OTHER:

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