

RADIO FIX AND HOLDING DATA RECORD

NAME: ARDNN

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 450526.26N/0931236.46W

TYPE: INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	ST PAUL	I-VKG	LOC/DME		326.03	326.03	11.95	11.95		3000	5200
2	FLYING CLOUD	FCM	VOR/DME	L	030.82	031.82		18.75		3000	5200

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

ST PAUL (FAC 1) AND FLYING CLOUD (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 14	1, 2		KSTP	ST PAUL	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

1. UPDATED FIX COORDINATES - FIX MOVED 72.19 FT SE.
2. CHANGED FAC1 BEARINGS FROM 323.04/326.04 TO READ 326.03/326.03 AND DME FROM 11.96 TO READ 11.95 IN FIX MAKE-UP FACILITIES SECTION.
3. CHANGED FAC2 BEARINGS FROM 30.81/31.81 TO READ 30.82/31.82 AND DIST FROM FAC NM FROM 18.76 TO READ 18.75 IN FIX MAKE-UP FACILITIES SECTION.
4. ADDED ST PAUL (FAC 1) AND FLYING CLOUD (FAC 2) USED TO ESTABLISH FIX COORDINATES TO REMARKS SECTION.
5. ADDED FAC 1 AND 2 TO ILS OR LOC RWY 14 IAP @ KSTP IN FIX USE SECTION.
6. ADDED STP ATCT AND MSP APP CON TO ATC FACILITY IN DISTRIBUTION SECTION.

DEVELOPED BY:

DATE: 02/14/2017

OFFICE: AJV-5433

NAME: BEV L BORDY (MICHAEL GARRITY)

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE: *Digitally signed by*
DONALD H LANIER

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: MSP ATCT, STP ATCT, MSP APP CON
OTHER:
May 15, 2017

QUALITY
24
CHECKED

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: MODIFY

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	2800 14000	4 10
2	E	FGT	VORTAC	085.00	265.00	L	1	3000 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: E6 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	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	V411					(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 12			KLVN	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) RWY 30			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)

QUALITY
24
CHECKED

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	NDB-B		KSGS	SOUTH ST PAUL	MN (US)
IAP	RNAV (GPS) RWY 34		KSGS	SOUTH ST PAUL	MN (US)
IAP	NDB RWY 4		K21D	ST PAUL	MN (US)
IAP	RNAV (GPS) RWY 32		K21D	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)
IAP	NDB RWY 31		KSTP	ST PAUL	MN (US)
IAP	ILS OR LOC RWY 10		KCGI	CAPE GIRARDEAU	MO (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	WILDD		KMSP	MINNEAPOLIS	MN (US)
STAR	AGUDE		KSGS	SOUTH ST PAUL	MN (US)
STAR	AGUDE		K21D	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, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 21

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

1. REMOVED SMERF (RNAV) DP @ KMSP FROM FIX USE SECTION.
2. ADDED ILS OR LOC RWY 30R AND ILS RWY 35 (SA CAT I) IAPS @ KMSP TO FIX USE SECTION.
3. CHANGED ILS Z RWY 35 IAPS @ KMSP TO READ ILS RWY 35 IAPS @ KMSP IN FIX USE SECTION.
4. REMOVED ILS Z OR LOC RWY 30L IAP @ KMSP FROM FIX USE SECTION.
5. CHANGED ILS Z OR LOC RWY 30R IAP @ KMSP TO READ ILS OR LOC RWY 30R IAP @ KMSP IN FIX USE SECTION.
6. COMBINED CAT II AND CAT III PROCEDURES ONTO SINGLE LINE ENTRIES FOR ILS RWY 12L, ILS RWY 12R, AND ILS RWY 35 IAPS @ KMSP IN FIX USE SECTION.
7. REMOVED AGUDE STAR @ KRGK FROM FIX USE SECTION.

DEVELOPED BY: **DATE:** 03/07/2017

OFFICE: AJV-5433

NAME: BEV L BORDY (MICHAEL GARRITY)

APPROVED BY: **DATE:**

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DONALD H LANIER

DISTRIBUTION:

NFDC

May 15, 2017

FPO: CEN

ARTCC: ZMP

ATC FACILITY: MSP APP CON, MSP ATCT

OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: HILZZ

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 450215.53N/0930934.36W

TYPE: INT, DME

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	FAC FEET	MRA	MAA
1	ST PAUL	I-VKG	LOC/DME		326.03	326.03	8.11	8.11	49286	3000	5200
2	FLYING CLOUD	FCM	VOR/DME	L	042.35	043.35		17.55		3000	5200

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

ST PAUL (FAC 1) AND FLYING CLOUD (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 14	1, 2		KSTP	ST PAUL	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

1. UPDATED FIX COORDINATES - FIX MOVED 805.40 FEET NORTH WEST.
2. CHANGED FAC1 BEARINGS FROM 323.04/326.04 TO READ 326.03/326.03, DME AND DIST FROM FAC FEET NM FROM 7.98 TO READ 8.11, AND DIST FROM FAC FEET FROM 48478 TO READ 49286 IN FIX MAKE-UP FACILITIES SECTION.
3. CHANGED FAC2 BEARINGS FROM 042.78/043.78 TO READ 042.35/043.35 AND DIST FROM FAC NM FROM 17.52 TO READ 17.55 IN FIX MAKE-UP FACILITIES SECTION.
4. CHANGED RNP CRITERIA UTILIZED TO READ ST PAUL (FAC 1) AND FLYING CLOUD (FAC 2) USED TO ESTABLISH FIX COORDINATES IN REMARKS SECTION.
5. ADDED 1,2 TO FAC FOR ILS OR LOC RWY 14 IAP @ KSTP IN FIX USE SECTION.
6. ADDED STP ATCT AND MSP APP CON TO ATC FACILITY IN DISTRIBUTION SECTION.

DEVELOPED BY:

DATE: 02/14/2017

OFFICE: AJV-5433

NAME: BEV L BORDY (MICHAEL GARRITY)

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DONALD H LANIER

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZMP

ATC FACILITY: MSP ATCT, STP ATCT, MSP APP CON

OTHER:

May 15, 2017



RADIO FIX AND HOLDING DATA RECORD

NAME: JEDEN

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 445824.68N/0930554.81W

TYPE: INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	ST PAUL	I-VKG	LOC/DME		326.03	326.03	3.47	3.47		1420	5200
2	FLYING CLOUD	FCM	VOR/DME	L	057.67	058.67		17.16		1420	5200

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 14	1, 2		KSTP	ST PAUL	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 06/22/2017

REASON FOR REVISION:

1. UPDATED FIX COORDINATES - FIX MOVED 5.80 FT SE
2. CHANGED FAC1 BEARINGS FROM 323.04/326.04 TO READ 326.03/326.03, MRA FROM 1400 TO READ 1420, AND MAA FROM 3000 TO READ 5200 IN FIX MAKE-UP FACILITIES SECTION.
3. CHANGED FAC2 DIST FROM FAC NM FROM 17.11 TO READ 17.16, MRA FROM 1400 TO READ 1420, AND MAA FROM 3000 TO READ 5200 IN FIX MAKE-UP FACILITIES SECTION.
4. ADDED 1,2 TO FAC FOR ILS OR LOC RWY 14 IAP @ KSTP IN FIX USE SECTION.
5. REMOVED "CONTROLLER" AND "EN ROUTE LOW" FROM REQUIRED CHARTING SECTION.
6. ADDED "IAP" TO REQUIRED CHARTING SECTION.
7. ADDED MSP APP CON TO ATC FACILITY IN DISTRIBUTION SECTION.

DEVELOPED BY:

DATE: 02/14/2017

OFFICE: AJV-5433

NAME: BEV L BORDY (MICHAEL GARRITY)

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by
DONALD H LANIER

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: STP ATCT, MSP APP CON
OTHER:
May 15, 2017



RADIO FIX AND HOLDING DATA RECORD

NAME: WHISK

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 450823.57N/0925743.72W

TYPE: WP, RADAR, INT, DME

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	MRA	MAA
1	GOPHER	GEP	VORTAC	H	085.00	091.00	17.46	17.46	3000	17500
2	FLYING CLOUD	FCM	VOR/DME	L	046.15	047.15		27.84	3400	17500
3	FARMINGTON	FGT	VORTAC	H	011.00	017.00	31.95	31.95	3000	17500
4	MINNEAPOLIS	MSP	VOR/DME	L	036.55	038.55	18.70	18.70	3400	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	E	GEP	VORTAC	085.00	265.00	R	1		3000	14000	5	11
2	N	WP	WP	017.00	197.00	R		4	3000	14000	5	11
3	N	FGT	VORTAC	011.00	191.00	R	1		4000	14000	6	11
4	NE	MSP	VOR/DME	036.55	216.55	R	1		4000	14000	5	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	450730.00N/0925754.00W	1250	4E
2	200	AAO	450730.00N/0925754.00W	1250	4E
3	200	TOWER (27-000481)	450828.02N/0930602.27W	1426	5D
4	200	AAO	451506.00N/0924948.00W	1280	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

GOPHER (FAC 1) AND FARMINGTON (FAC 3) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V13	1, 2, 3				(US)
EN ROUTE	V78	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 22			KMSP	MINNEAPOLIS	MN (US)
IAP	RNAV (GPS) RWY 32		2	K21D	ST PAUL	MN (US)
IAP	ILS OR LOC RWY 14	1, 2, 3	1	KSTP	ST PAUL	MN (US)
IAP	ILS OR LOC RWY 14 (ALT MA)	4	4	KSTP	ST PAUL	MN (US)
IAP	ILS OR LOC RWY 32	1, 4	4	KSTP	ST PAUL	MN (US)
IAP	ILS OR LOC RWY 32 (ALT MA)	3	3	KSTP	ST PAUL	MN (US)
IAP	RNAV (GPS) RWY 14		2	KSTP	ST PAUL	MN (US)
IAP	RNAV (GPS) RWY 32		2	KSTP	ST PAUL	MN (US)
STAR	AGUDE	1, 2, 3,		KCFE	BUFFALO	MN (US)
		4				
STAR	AGUDE	1, 2, 3,		KFBL	FARIBAULT	MN (US)
		4				
STAR	AGUDE	1, 2, 3,		KGYL	GLENCOE	MN (US)
		4				
STAR	AGUDE	1, 2, 3,		KMGG	MAPLE LAKE	MN (US)
		4				
STAR	AGUDE	1, 2, 3,		KANE	MINNEAPOLIS	MN (US)
		4				
STAR	AGUDE	1, 2, 3,		KFCM	MINNEAPOLIS	MN (US)
		4				
STAR	AGUDE	1, 2, 3,		KLVN	MINNEAPOLIS	MN (US)
		4				
STAR	AGUDE	1, 2, 3,		KMIC	MINNEAPOLIS	MN (US)
		4				
STAR	AGUDE	1, 2, 3,		KSGS	SOUTH ST PAUL	MN (US)
		4				
STAR	AGUDE	1, 2, 3,		K21D	ST PAUL	MN (US)
		4				
STAR	AGUDE	1, 2, 3,		KSTP	ST PAUL	MN (US)
		4				
STAR	AGUDE	1, 2, 3,		KRNH	NEW RICHMOND	WI (US)
		4				
STAR	AGUDE	1, 2, 3,		KOEO	OSCEOLA	WI (US)
		4				

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

QUALITY
34
CHECKED

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13

DATE OF REVISION: 08/17/2017

REASON FOR REVISION:

1. ADDED RADAR TO TYPE SECTION.
2. CHANGED FAC3 MRA FROM 4000 TO READ 3400 IN FIX MAKE-UP FACILITIES SECTION.
3. CHANGED PAT2 RAD/CRS/BRG AND CRS INBOUND FROM 014.00/194.00 TO READ 017.00/197.00 IN PATTERNS SECTION.
4. CHANGED PAT3 COORDINATES FROM 450828.00N/0930602.00W TO READ 450828.02N/0930602.27W IN CONTROLLING OBSTRUCTIONS SECTION.
5. ADDED 3 TO FAC FOR ILS OR LOC RWY 14 IAP @ KSTP IN FIX USE SECTION.
6. CHANGED PAT FROM 1 TO 4 FOR ILS OR LOC RWY 14 (ALT MA) IAP @ KSTP IN FIX USE SECTION.
7. ADDED 1 TO FAC FOR ILS OR LOC RWY 32 IAP @ KSTP TO FIX USE SECTION.
8. REMOVED AGUDE STAR @ KRGK FROM FIX USE SECTION.
9. ADDED AGUDE STAR @ KCFE TO FIX USE SECTION.

05/19/17: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/15/17.

1. CHANGED MRA FOR FGT VORTAC FROM 3400 TO 3000 IN FIX MAKE-UP FACILITIES SECTION.

DEVELOPED BY: DATE: 02/14/2017 OFFICE: AJV-5433 NAME: BEV L BORDY (MICHAEL GARRITY)

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

SIGNATURE: *Digitally signed by***DONALD H LANIER**

May 19, 2017

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

QUALITY
34
CHECKED