

RADIO FIX AND HOLDING DATA RECORD

NAME: EMORE STATE: MN COUNTRY: US ICAO REGION CODE: K3
 LATITUDE/LONGITUDE: 434220.34N/0921109.07W TYPE: WP, INT, DME

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	MRA	MAA
1	ROCHESTER	RST	VOR/DME	L	099.40	104.40	18.47	18.47	3000	17500
2	NODINE	ODI	VORTAC	H	247.58	248.58		33.58	3000	17500
3	ROCHESTER	I-RST	LOC		131.14	132.14		19.31	2800	8000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-RST	LOC	R-131	20	2800	8000

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

ROCHESTER (FAC 1) AND ROCHESTER (FAC 3) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V24	1, 2				(US)
IAP	RNAV (GPS) RWY 29			KFKA	PRESTON	MN (US)
IAP	COPTER ILS Y OR LOC Y RWY 31	1, 2, 3		KRST	ROCHESTER	MN (US)
IAP	ILS Z OR LOC Z RWY 31	1, 2, 3		KRST	ROCHESTER	MN (US)
IAP	ILS Z RWY 31 (SA CAT I/II)	1, 2, 3		KRST	ROCHESTER	MN (US)
IAP	RNAV (GPS) RWY 2			KRST	ROCHESTER	MN (US)
IAP	RNAV (GPS) RWY 31			KRST	ROCHESTER	MN (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 DATE OF REVISION: 03/26/2020

REASON FOR REVISION:

1. REQUIRED CHARTING: ADDED CONTROLLER LOW.
2. FIX USE: ADDED KRST ILS Z RWY 31 (CAT I/II).

INITIATED BY: DATE: ORGANIZATION: NAME:
 OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 NAME: PATRICK COMBS
 APPROVED BY: DATE: OFFICE: AJV-A430 NAME: LONNIE EVERHART

SIGNATURE: *Digitally signed by*
WARDELL HENNING

DISTRIBUTION: NFDC
 FPO: CEN
 ARTCC: ZMP
 ATC FACILITY: RST ATCT
 OTHER:

Dec 13, 2019



RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 433426.04N/0913018.32W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	ROCHESTER	RST	VOR/DME	L	099.40	104.40	49.17	49.17		3000	17500
2	WAUKON	UKN	VOR/DME	L	359.57	004.57	17.68	17.68		3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
RST	VOR/DME	R-099	50	3000	17500

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

REMARKS:

ROCHESTER (FAC 1) AND WAUKON (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V24	1, 2				(US)
EN ROUTE	V246	1, 2				(US)
IAP	VOR/DME OR GPS-A	1, 2		KCHU	CALEDONIA	MN (US)
IAP	RNAV (GPS) RWY 29			KFKA	PRESTON	MN (US)
IAP	RNAV (GPS) RWY 34			K55Y	RUSHFORD	MN (US)
IAP	RNAV (GPS) RWY 4			KLSE	LA CROSSE	WI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 03/26/2020

REASON FOR REVISION:

1. ADDED CONTROLLER LOW TO REQUIRED CHARTING.

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

OFFICE OF PRIMARY RESPONSIBILITY: **NAME:** AJV-5433

APPROVED BY: **DATE:** **OFFICE:** **NAME:**

SIGNATURE: *Digitally signed by*
WARDELL HENNING

DISTRIBUTION: **NFDC** Dec 13, 2019

FPO: CEN
ARTCC: ZMP
ATC FACILITY: LSE ATCT
OTHER:

QUALITY
29
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: NODINE VORTAC STATE: MN COUNTRY: US ICAO REGION CODE: K3
 LATITUDE/LONGITUDE: 435444.38N/0912803.06W 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	MRA FEET	MAA
1	NODINE	ODI	VORTAC	H					3000	45000

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	S	ODI	VORTAC	177.54	357.54	R	1		3400	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-000375)	434823.00N/0912203.00W	2045	3C
UPN	200	TOWER (27-000375)	434823.00N/0912203.00W	2045	3C

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3500.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 REFERENCE MAGNETIC VARIATION: 1 E.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ZMBRO			KANE	MINNEAPOLIS	MN (US)
DP	ZMBRO			KFCM	MINNEAPOLIS	MN (US)
DP	MEADOW LAKE			KMSP	MINNEAPOLIS	MN (US)
DP	MINNEAPOLIS			KMSP	MINNEAPOLIS	MN (US)
DP	ZMBRO			KMSP	MINNEAPOLIS	MN (US)
DP	ZMBRO			KSTP	ST PAUL	MN (US)
EN ROUTE	J30					(US)
EN ROUTE	J34					(US)
EN ROUTE	J36					(US)
EN ROUTE	V129					(US)
EN ROUTE	V170					(US)
EN ROUTE	V171					(US)
EN ROUTE	V2					(US)
EN ROUTE	V246					(US)
EN ROUTE	V510					(US)
EN ROUTE	V82					(US)
EN ROUTE	V97					(US)
IAP	VOR/DME OR GPS-A			KCHU	CALEDONIA	MN (US)
IAP	COPTER ILS Y OR LOC Y RWY 31			KRST	ROCHESTER	MN (US)
IAP	ILS Z OR LOC Z RWY 31			KRST	ROCHESTER	MN (US)
IAP	VOR-A			K55Y	RUSHFORD	MN (US)
IAP	ILS Y OR LOC Y RWY 30			KONA	WINONA	MN (US)
IAP	ILS OR LOC RWY 18		1	KLSE	LA CROSSE	WI (US)
IAP	RNAV (GPS) RWY 11			KCMY	SPARTA	WI (US)
STAR	EAU CLAIRE			KMSP	MINNEAPOLIS	MN (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: 8

DATE OF REVISION: 03/26/2020

REASON FOR REVISION:

1. FIX USE: DELETED KFKA IAP RNAV (GPS) RWY 29.
2. FIX USE: ADDED KMSP DP MINNEAPOLIS.
3. FIX USE: ADDED KRST IAP COPTER ILS Y OR LOC Y RWY 31.
4. FIX USE: ADDED KRST IAP ILS Z OR LOC Z RWY 31.

Digitally signed by

WARDELL HENNING

Dec 13, 2019

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: PATRICK COMBS

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART



*Digitally signed by***SIGNATURE: WARDELL HENNING**

Dec 13, 2019

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: CMY ATCT
OTHER:

QUALITY
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RADIO FIX AND HOLDING DATA RECORD

NAME: WYKOF

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 433858.60N/0920322.56W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 29

FAC

PAT

AIRPORT IDENT
KFKA

CITY
PRESTON

STATE
MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 03/26/2020

REASON FOR REVISION:

REMOVED "PFAF LOCATION IAW 8260.54A FORMULA 2-16B" FROM REMARKS.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: PATRICK COMBS

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

Digitally signed by

WARDELL HENNING

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: RST APP CON
OTHER: AMGR

Dec 13, 2019

QUALITY
29
CHECKED