

RADIO FIX AND HOLDING DATA RECORD

NAME: CORDY STATE: MN COUNTRY: US ICAO REGION CODE: K3
 LATITUDE/LONGITUDE: 440725.38N/0924947.21W 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	328.81	333.81	22.80	22.80	3000	17500
2	HALFWAY	FOV	VOR/DME	T	099.53	101.53	23.85	23.85	3000	33000
3	FARMINGTON	FGT	VORTAC	H	147.40	153.40	34.00	34.00	3000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
FOV	VOR/DME	R-100	24	9000	33000

HOLDING: HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING ALTITUDES DME MIN MAX	TEMPLATES MIN MAX
1	SE		WP	152.78	332.78	R	4	3000 14000	5 11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-001218)	440658.73N/0924122.33W	1751	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

ROCHESTER (FAC 1) AND HALFWAY (FAC 2) USED TO ESTABLISH FIX COORDINATES
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ROCHESTER	1, 2, 3		KANE	MINNEAPOLIS	MN (US)
DP	ROCHESTER	1, 2, 3		KFCM	MINNEAPOLIS	MN (US)
DP	ROCHESTER	1, 2, 3		KMSP	MINNEAPOLIS	MN (US)
DP	ROCHESTER	1, 2, 3		KSTP	ST PAUL	MN (US)
EN ROUTE	V161	1, 2, 3				(US)
EN ROUTE	V82	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 30			KFBL	FARIBAULT	MN (US)
IAP	RNAV (GPS) RWY 30			KOWA	OWATONNA	MN (US)
IAP	ILS OR LOC RWY 13	1, 2, 3		KRST	ROCHESTER	MN (US)
IAP	RNAV (GPS) RWY 13			KRST	ROCHESTER	MN (US)
IAP	RNAV (GPS) RWY 20			KRST	ROCHESTER	MN (US)
IAP	RNAV (GPS) RWY 31		1	KRST	ROCHESTER	MN (US)

REQUIRED CHARTING: DP, IAP, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15 DATE OF REVISION: 09/13/2018

REASON FOR REVISION:

1. AMENDED PAT 1 CONTROLLING OBSTACLE FROM 1747 MSL TO 1751 MSL, LAT/LONG FROM 440659.00N/0924123.00W TO 440658.73N/0924122.33W, AND ACCURACY CODE FROM 5D TO 2C TO MATCH CURRENT AIRNAV DATA FOR OBSTACLE 27-001218 (NO CHANGE TO MIN HOLDING ALTITUDE).
 2. AMENDED REMARK FARMINGTON (FAC 3) USED TO ESTABLISH FIX COORDINATES TO ROCHESTER (FAC 1) AND HALFWAY (FAC 2) USED TO ESTABLISH FIX COORDINATES.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 04/10/2018	OFFICE: AJV-5422	NAME: PETER GUIMOND
APPROVED BY:	DATE:	OFFICE: AJV-5420	NAME: JULIE MORGAN
SIGNATURE:			

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

RADIO FIX AND HOLDING DATA RECORD

NAME: DLANY STATE: MN COUNTRY: US ICAO REGION CODE: K3
 LATITUDE/LONGITUDE: 435038.32N/0920437.36W TYPE: WP, 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	ROCHESTER	RST	VOR/DME	L	075.61	080.61	22.88	22.88	3000	17500
2	WAUKON	UKN	VOR/DME	L	320.35	325.35	41.21	41.21	3000	17500
3	NODINE	ODI	VORTAC	H	260.40	261.40		26.77	3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
UKN	VOR/DME	R-320	42	3000	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	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	ODI	VORTAC	080.40	260.40	R	1		3000	6000	6	7
2	E		WP	080.40	260.40	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-020473)	435258.00N/0920011.07W	1598	5D
2	200	TOWER (27-020473)	435258.00N/0920011.07W	1598	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S).

REMARKS:

ROCHESTER (FAC 1) AND WAUKON (FAC 2) USED TO ESTABLISH FIX COORDINATES
 PRECIPITOUS TERRAIN EVALUATION COMPLETE.
 FAC 2 AND FAC 3 USED FOR HOLDING INTERSECTION.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V218	2				(US)
EN ROUTE	V82-170	2, 3				(US)
IAP	ILS OR LOC RWY 13	2, 3	1	KRST	ROCHESTER	MN (US)
IAP	RNAV (GPS) RWY 31			KRST	ROCHESTER	MN (US)
IAP	RNAV (GPS) RWY 34		2	K55Y	RUSHFORD	MN (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 DATE OF REVISION: 01/03/2019

REASON FOR REVISION:

FAC2 'UKN' CHANGED FROM VORTAC TO VOR/DME (ESV ALSO UPDATED) - TACR PROJECT

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-5422 NAME: LUCAS MCCLOUD

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

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

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: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	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 OR LOC RWY 31	1, 2, 3		KRST	ROCHESTER	MN (US)
IAP	ILS OR LOC RWY 31	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, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 05/31/2012

REASON FOR REVISION:

UPDATE FIX COORDINATES, MOVED FIX 89 FEET WNW.
CHANGED FAC 1 MAG/TRUE BRG FROM 099.39/104.39 TO 099.40/104.40, DME FROM 18.48 TO 18.47.
CHANGED FAC 2 MAG/TRUE BRG FROM 247.55/248.55 TO 247.58/248.58, DME FROM 33.57 TO 33.58.
CHANGED FAC 3 DIST FROM 19.33 TO 19.31.
ADD FACILITIES FOR FIX MAKE-UP TO REMARKS.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 01/04/2012

OFFICE: AJV-353

NAME: THOMAS KIRKPATRICK

APPROVED BY:

DATE: 04/09/2012

OFFICE: AJV-353

NAME: LARRY STROUT

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: ZUTEL

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 434646.43N/0921752.33W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 31

FAC

PAT

AIRPORT IDENT
KRST

CITY
ROCHESTER

STATE
MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 05/31/2012

REASON FOR REVISION:

MADE FIX A WP ONLY.
REMOVED FAC'S 1-3.
UPDATE FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 11/29/2011

OFFICE: AJV-353

NAME: THOMAS KIRKPATRICK

APPROVED BY:

DATE: 04/09/2012

OFFICE: AJV-353

NAME: LARRY STROUT

SIGNATURE:

DISTRIBUTION:

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