

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CEPMU

**STATE:** WI

**COUNTRY:** US

**ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 455040.31N/0894349.93W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** ESTABLISH

**FIX USE:**

**USE TYPE**

IAP  
IAP

**USE TITLE**

RNAV (GPS) RWY 18  
RNAV (GPS) RWY 36

**FAC**

**PAT**

**AIRPORT IDENT**

KARV  
KARV

**CITY**

MINOCQUA-WOODRUFF  
MINOCQUA-WOODRUFF

**STATE**

WI (US)  
WI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 12/17/2009

**REASON FOR REVISION:**

RNP CRITERIA APPLIED.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 06/01/2009

**OFFICE:** AVN-120

**NAME:** PABLO ORTIZ

**APPROVED BY:**

**DATE:** 12/17/2009

**OFFICE:** AVN-120

**NAME:** SUE CRUMB

**SIGNATURE:**

**DISTRIBUTION:**

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: DINER

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 461209.22N/0891048.30W

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 NM	FAC FEET	MRA	MAA
1	IRON MOUNTAIN	IMT	VOR/DME	L	299.83	297.83	50.33	50.33		3500	17500
2	RHINELANDER	RHI	VOR/DME	L	016.72	018.72		36.06		3500	17500

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
IMT	VOR/DME	R-300	51	5000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

IRON MOUNTAIN (FAC 1) AND RHINELANDER (FAC 2) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V430	1, 2				(US)
IAP	RNAV (GPS) RWY 22			KEGV	EAGLE RIVER	WI (US)
IAP	RNAV (GPS) RWY 14			KLNL	LAND O'LAKES	WI (US)
IAP	RNAV (GPS) RWY 32			KLNL	LAND O'LAKES	WI (US)
IAP	RNAV (GPS) RWY 18			KARV	MINOCQUA-WOODRUFF	WI (US)
IAP	RNAV (GPS) RWY 28			KARV	MINOCQUA-WOODRUFF	WI (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 01/05/2017

## REASON FOR REVISION:

UPDATED FAC 2 TYPE FROM VORTAC TO VOR/DME  
ADDED FACS USED TO ESTABLISH COORDINATES REMARK

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 09/19/2016

OFFICE: AJV-5433

NAME: BEV L BORDY (NICHOLAS JACKSON)

APPROVED BY:

DATE: 12/28/2016

OFFICE: AJV-5433

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** FEGOG

**STATE:** WI

**COUNTRY:** US

**ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 460705.88N/0893705.02W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** ESTABLISH

**FIX USE:**  
**USE TYPE**  
IAP

**USE TITLE**  
RNAV (GPS) RWY 18

**FAC PAT**

**AIRPORT IDENT**  
KARV

**CITY**  
MINOCQUA-WOODRUFF

**STATE**  
WI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 12/17/2009

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 06/03/2009

**OFFICE:** AVN-120

**NAME:** PABLO ORTIZ

**APPROVED BY:**

**DATE:** 12/17/2009

**OFFICE:** AVN-120

**NAME:** SUE CRUMB

**SIGNATURE:**

**DISTRIBUTION:**

**NFDC**  
**FPO:** CEN  
**ARTCC:** ZMP  
**ATC FACILITY:**  
**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** ICEGY

**STATE:** WI

**COUNTRY:** US

**ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 460654.68N/0895127.38W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** ESTABLISH

**FIX USE:**  
**USE TYPE**  
IAP

**USE TITLE**  
RNAV (GPS) RWY 18

**FAC PAT**

**AIRPORT IDENT**  
KARV

**CITY**  
MINOCQUA-WOODRUFF

**STATE**  
WI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 12/17/2009

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 06/03/2009

**OFFICE:** AVN-120

**NAME:** PABLO ORTIZ

**APPROVED BY:**

**DATE:** 12/17/2009

**OFFICE:** AVN-120

**NAME:** SUE CRUMB

**SIGNATURE:**

**DISTRIBUTION:**

**NFDC**  
**FPO:** CEN  
**ARTCC:** ZMP  
**ATC FACILITY:**  
**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** IRONWOOD VOR/DME **STATE:** MI **COUNTRY:** US **ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 463156.12N/0900733.06W **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	MRA	MAA
1	IRONWOOD	IWD	VOR/DME	L						17500

**FIX RESTRICTIONS:**

MCA V148 5200 SOUTHWEST BOUND

**HOLDING:**

**HOLDING TYPE OF ACTION:** MODIFY

**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	IWD	VOR/DME	259.00	079.00	L	1	3300 6000	4 5

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	462903.00N/0900648.00W	1998	4E

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 ATC REQUEST

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
ASSIGNED FACILITY MAGVAR: 1E (1980).

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V148					(US)
EN ROUTE	V191					(US)
EN ROUTE	V316					(US)
EN ROUTE	V413					(US)
EN ROUTE	V430					(US)
IAP	ILS OR LOC RWY 27		1	KIWD	IRONWOOD	MI (US)
IAP	VOR/DME RWY 9			KIWD	IRONWOOD	MI (US)
IAP	LOC RWY 2			KASX	ASHLAND	WI (US)
IAP	RNAV (GPS) RWY 20			KASX	ASHLAND	WI (US)
IAP	RNAV (GPS) RWY 22			KEGV	EAGLE RIVER	WI (US)
IAP	RNAV (GPS) RWY 22			K4R5	LA POINTE	WI (US)
IAP	RNAV (GPS) RWY 4			K4R5	LA POINTE	WI (US)
IAP	RNAV (GPS) RWY 18			KARV	MINOCQUA-WOODRUFF	WI (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 8

**DATE OF REVISION:** 11/08/2018

**REASON FOR REVISION:**

1. CHANGED NAME FROM IRONWOOD VORTAC TO IRONWOOD VOR/DME.
2. CHANGE FACILITY TYPE FROM VORTAC TO VOR/DME.
3. AMENDED PAT 1 TYPE FROM VORTAC TO VOR/DME.
4. DELETED REMARK IN HOLDING RESTRICTIONS: ADDED MCA 5200 SOUTHWEST BOUND ON V148.
5. ADDED ASSIGNED FACILITY MAGVAR IN REMARKS.
6. DELETED CONTROLLER FROM REQUIRED CHARTING.
7. ADDED CONTROLLER LOW TO REQUIRED CHARTING.
8. ADDED LOC RWY 2 AT KASX TO FIX USE.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-5422

**NAME:** PETER GUIMOND

**APPROVED BY:**

**DATE:**

**OFFICE:** AJV-5420

**NAME:** JULIE MORGAN

**SIGNATURE:**

**DISTRIBUTION:**    **NFDC**  
                         **FPO: CEN**  
                         **ARTCC: ZMP**  
                         **ATC FACILITY:**  
                         **OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: KRSMS STATE: WI COUNTRY: US ICAO REGION CODE: K5  
 LATITUDE/LONGITUDE: 455307.03N/0900134.59W 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	RHINELANDER	RHI	VOR/DME		300.50	302.50	28.25	28.25	6000	17500
2	ARBOR VITAE	ARV	NDB	MH	260.82	258.82		12.72	6000	17500

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NW		WP	302.52	122.52	R	5	6000	8000	6	9

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (55-000484)	455642.50N/0901622.50W	3049	4D
1	310	TOWER (55-000484)	455642.50N/0901622.50W	3049	4D
UPN	200	TOWER (55-000484)	455642.50N/0901622.50W	3049	4D

## HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 6000' (DME ONLY).

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 18	KARV	MINOCQUA-WOODRUFF	WI (US)

## REMARKS:

RHINELANDER (FAC 1) USED TO ESTABLISH FIX COORDINATES  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V217	1, 2				WI (US)
IAP	RNAV (GPS) RWY 32			KD25	MANITOWISH WATERS	WI (US)
IAP	LOC RWY 36	1, 2		KARV	MINOCQUA-WOODRUFF	WI (US)
IAP	RNAV (GPS) RWY 18		1	KARV	MINOCQUA-WOODRUFF	WI (US)
IAP	RNAV (GPS) RWY 28		1	KARV	MINOCQUA-WOODRUFF	WI (US)
IAP	RNAV (GPS) RWY 19			KPBH	PHILLIPS	WI (US)
IAP	RNAV (GPS) RWY 24			KPBH	PHILLIPS	WI (US)
IAP	RNAV (GPS) RWY 9			KTKV	TOMAHAWK	WI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 DATE OF REVISION: 10/10/2019

## REASON FOR REVISION:

REMOVED KARV NDB RWY 28 FROM FIX USE.

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

SIGNATURE:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: MIGPY

STATE: WI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 460700.51N/0894416.21W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	N		WP	000.93	180.93	R	4	3300	6000	5	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (55-001251)	460610.00N/0894156.00W	2060	5D

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 18		1	KARV	MINOCQUA-WOODRUFF	WI (US)
IAP	RNAV (GPS) RWY 36		1	KARV	MINOCQUA-WOODRUFF	WI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 12/17/2009

## REASON FOR REVISION:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 06/01/2009

OFFICE: AVN-120

NAME: PABLO ORTIZ

APPROVED BY:

DATE: 12/17/2009

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

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



# RADIO FIX AND HOLDING DATA RECORD

**NAME:** PEHEK

**STATE:** WI

**COUNTRY:** US

**ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 460059.58N/0894406.51W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** ESTABLISH

**REMARKS:**

RNP CRITERIA APPLIED.

**FIX USE:**

**USE TYPE**  
IAP

**USE TITLE**

RNAV (GPS) RWY 18

**FAC**

**PAT**

**AIRPORT IDENT**

KARV

**CITY**

MINOCQUA-WOODRUFF

**STATE**

WI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 12/17/2009

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 06/03/2009

**OFFICE:** AVN-120

**NAME:** PABLO ORTIZ

**APPROVED BY:**

**DATE:** 12/17/2009

**OFFICE:** AVN-120

**NAME:** SUE CRUMB

**SIGNATURE:**

**DISTRIBUTION:**

NFDC

FPO: CEN

ARTCC: ZMP

ATC FACILITY:

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** RAMIW

**STATE:** WI

**COUNTRY:** US

**ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 455757.76N/0894401.63W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** ESTABLISH

**FIX USE:**  
**USE TYPE**  
IAP

**USE TITLE**  
RNAV (GPS) RWY 18

**FAC PAT**

**AIRPORT IDENT**  
KARV

**CITY**  
MINOCQUA-WOODRUFF

**STATE**  
WI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 12/17/2009

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 06/03/2009

**OFFICE:** AVN-120

**NAME:** PABLO ORTIZ

**APPROVED BY:**

**DATE:** 12/17/2009

**OFFICE:** AVN-120

**NAME:** SUE CRUMB

**SIGNATURE:**

**DISTRIBUTION:**

**NFDC**  
**FPO:** CEN  
**ARTCC:** ZMP  
**ATC FACILITY:**  
**OTHER:**