

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** FITSA

**STATE:** WI

**COUNTRY:** US

**ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 432218.20N/0875035.82W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** ESTABLISH

**HOLDING:**

**HOLDING TYPE OF ACTION:**

**FIX USE:**

**USE TYPE**  
IAP  
IAP

**USE TITLE**  
RNAV (GPS) RWY 22R  
RNAV (GPS) RWY 31

**FAC**

**PAT**

**AIRPORT IDENT**  
KMWC  
KETB

**CITY**  
MILWAUKEE  
WEST BEND

**STATE**  
WI (US)  
WI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 04/08/2010

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 09/15/2009

**OFFICE:** AVN-120

**NAME:** ROY BARNETT

**APPROVED BY:**

**DATE:** 02/04/2010

**OFFICE:** AVN-120

**NAME:** SUE CRUMB

**SIGNATURE:**

**DISTRIBUTION:**

NFDC  
FPO: CEN  
ARTCC: ZAU  
ATC FACILITY: MKE APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** HAWKN **STATE:** WI **COUNTRY:** US **ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 431800.15N/0881623.44W **TYPE:** WP, RADAR, 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	BADGER	BAE	VOR/DME	H	000.55	002.55	11.00	11.00	3000	17500

**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	N		WP	003.55	183.55	R		4	3000	6000	5	13
2	N		WP	004.55	184.55	R		4	3000	6000	5	6

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (55-000858)	432424.68N/0881834.04W	1595	4D
1	310	WINDMILL (55-020170)	432419.41N/0882918.08W	1616	5D
2	200	TOWER (55-000858)	432424.68N/0881834.04W	1595	4D

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 9	KHXF	HARTFORD	WI (US)

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MITCHELL			MKE	MILWAUKEE	WI (US)
EN ROUTE	V217	1				(US)
IAP	RNAV (GPS) RWY 9		1	HXF	HARTFORD	WI (US)
IAP	RNAV (GPS) RWY 15L		2	MWC	MILWAUKEE	WI (US)
IAP	RNAV (GPS) RWY 22R		2	MWC	MILWAUKEE	WI (US)
IAP	RNAV (GPS) RWY 4L		2	MWC	MILWAUKEE	WI (US)
IAP	RNAV (GPS) RWY 10		1	UES	WAUKESHA	WI (US)
IAP	RNAV (GPS) RWY 28		1	UES	WAUKESHA	WI (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 7 **DATE OF REVISION:** 05/14/2026

**REASON FOR REVISION:**

CONTROLLING OBSTRUCTIONS: PAT 1 AND 2 ELEVATION CHANGED FROM 1590 TO 1595 AND ACCURACY CODE FROM 5D TO 4D.

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

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A422 **NAME:** RALPH MILLER

**APPROVED BY:** **DATE:** 04/09/2026 **OFFICE:** AJV-A422 **NAME:** RAKE MCGRAW

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** OLIGY **STATE:** WI **COUNTRY:** US **ICAO REGION CODE:** K5  
**LATITUDE/LONGITUDE:** 431626.64N/0875215.28W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** ESTABLISH

**HOLDING:** **HOLDING TYPE OF ACTION:** ESTABLISH

**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	NE		WP	038.29	218.29	R	4	2700	6000	5	6

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	STACK (55-000193)	432306.00N/0875209.00W	1098	5D

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION ACCOMPLISHED.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 22R		1	KMWC	MILWAUKEE	WI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG **DATE OF REVISION:** 07/28/2011

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

**DEVELOPED BY:** **DATE:** 10/18/2010 **OFFICE:** AVN-120 **NAME:** JOSE ALFONSO (ALLAN WILL)

**APPROVED BY:** **DATE:** 07/20/2011 **OFFICE:** AVN-120 **NAME:** GREGORY YAMAMOTO

**SIGNATURE:**

**DISTRIBUTION:**

NFDC  
FPO: CEN  
ARTCC: ZAU  
ATC FACILITY: KMWC TOWER, MKE APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: PROOT STATE: WI COUNTRY: US ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 430804.77N/0874211.89W TYPE: WP

AIRSPACE DOCKET: 18-AGL-12 FIX TYPE OF ACTION: MODIFY

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 MIN	ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	N		WP	354.46	174.46	R	4	3700	6000	5 6

### CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	SHIP	430804.77N/0874211.89W	788	6C

### HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

### REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

### FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 27			KHXF	HARTFORD	WI (US)
IAP	RNAV (GPS) RWY 25R			KMKE	MILWAUKEE	WI (US)
IAP	RNAV (RNP) Y RWY 25L		1	KMKE	MILWAUKEE	WI (US)
IAP	RNAV (RNP) Y RWY 7R		1	KMKE	MILWAUKEE	WI (US)
IAP	RNAV (GPS) RWY 22R			KMWC	MILWAUKEE	WI (US)
IAP	RNAV (GPS) RWY 31			KETB	WEST BEND	WI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 05/21/2020

### REASON FOR REVISION:

ADDED DOCKET NUMBER 18-AGL-12  
REMOVED INT AND DME FROM TIX TYPE  
REMOVED FAC1 AND FAC2 FROM FIX MAKE-UP  
REMOVED REMARK "FALLS (FAC 1) AND BADGER (FAC 2) USED TO ESTABLISH FIX COORDINATES".

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A433 NAME: DAVID TEFFETELLER

APPROVED BY: DATE: OFFICE: AJV-A430 NAME: GEORGE DAVIS

SIGNATURE:

DISTRIBUTION: NFDC  
FPO: CEN  
ARTCC: ZAU  
ATC FACILITY: MKE APP CON, MKE TOWER  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** WEGOM

**STATE:** WI

**COUNTRY:** US

**ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 431429.21N/0874303.43W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** ESTABLISH

**HOLDING:**

**HOLDING TYPE OF ACTION:**

**FIX USE:**

**USE TYPE**  
IAP

**USE TITLE**  
RNAV (GPS) RWY 22R

**FAC**

**PAT**

**AIRPORT IDENT**  
KMWC

**CITY**  
MILWAUKEE

**STATE**  
WI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 07/28/2011

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 10/18/2010

**OFFICE:** AVN-120

**NAME:** JOSE ALFONSO (ALLAN WILL)

**APPROVED BY:**

**DATE:** 07/20/2011

**OFFICE:** AVN-120

**NAME:** GREGORY YAMAMOTO

**SIGNATURE:**

**DISTRIBUTION:**

**NFDC**  
**FPO:** CEN  
**ARTCC:** ZAU  
**ATC FACILITY:** KMWC TOWER, MKE APP CON  
**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** WIKPI **STATE:** WI **COUNTRY:** US **ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 430813.43N/0880029.51W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** ESTABLISH

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

<b>FIX USE:</b>	<b>USE TITLE</b>	<b>FAC</b>	<b>PAT</b>	<b>AIRPORT IDENT</b>	<b>CITY</b>	<b>STATE</b>
<b>USE TYPE</b> IAP	RNAV (GPS) RWY 22R			KMWC	MILWAUKEE	WI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG **DATE OF REVISION:** 07/28/2011

<b>INITIATED BY:</b>	<b>DATE:</b>	<b>ORGANIZATION:</b>	<b>NAME:</b>
<b>DEVELOPED BY:</b>	<b>DATE:</b> 10/15/2010	<b>OFFICE:</b> AVN-120	<b>NAME:</b> JOSE ALFONSO (ALLAN WILL)
<b>APPROVED BY:</b>	<b>DATE:</b> 07/20/2011	<b>OFFICE:</b> AVN-120	<b>NAME:</b> GREGORY YAMAMOTO

**SIGNATURE:**

**DISTRIBUTION:** NFDC  
FPO: CEN  
ARTCC: ZAU  
ATC FACILITY: KMWC TOWER, MKE APP CON  
OTHER:



# RADIO FIX AND HOLDING DATA RECORD

**NAME:** ZOBIR **STATE:** WI **COUNTRY:** US **ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 431113.58N/0875729.32W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** ESTABLISH

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

**REMARKS:**  
8260.54A FORMULA 2-16B APPLIED.

<b>FIX USE:</b>	<b>USE TITLE</b>	<b>FAC</b>	<b>PAT</b>	<b>AIRPORT IDENT</b>	<b>CITY</b>	<b>STATE</b>
<b>USE TYPE</b>						
IAP	RNAV (GPS) RWY 22R			KMWC	MILWAUKEE	WI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG **DATE OF REVISION:** 07/28/2011

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

**DEVELOPED BY:** **DATE:** 10/15/2010 **OFFICE:** AVN-120 **NAME:** JOSE ALFONSO (ALLAN WILL)

**APPROVED BY:** **DATE:** 07/20/2011 **OFFICE:** AVN-120 **NAME:** GREGORY YAMAMOTO

**SIGNATURE:**

**DISTRIBUTION:** NFDC  
FPO: CEN  
ARTCC: ZAU  
ATC FACILITY: KMWC TOWER, MKE APP CON  
OTHER: