

IAP	RNAV (GPS) Z RWY 25L	4	KMKE	MILWAUKEE	WI (US)
IAP	RNAV (GPS) Z RWY 7R	4	KMKE	MILWAUKEE	WI (US)
IAP	LOC RWY 15L	1	KMWC	MILWAUKEE	WI (US)
IAP	RNAV (GPS) RWY 4L		KMWC	MILWAUKEE	WI (US)
IAP	ILS OR LOC RWY 4		KRAC	RACINE	WI (US)
IAP	NDB RWY 23		KRYV	WATERTOWN	WI (US)
IAP	NDB RWY 5		KRYV	WATERTOWN	WI (US)
IAP	RNAV (GPS) RWY 23		KRYV	WATERTOWN	WI (US)
IAP	RNAV (GPS) RWY 29		KRYV	WATERTOWN	WI (US)
IAP	ILS OR LOC RWY 10	1	KUES	WAUKESHA	WI (US)
IAP	VOR -A	2	KUES	WAUKESHA	WI (US)
IAP	RNAV (GPS) RWY 13		KETB	WEST BEND	WI (US)
IAP	RNAV (GPS) RWY 31		KETB	WEST BEND	WI (US)
IAP	RNAV (GPS) RWY 6		KETB	WEST BEND	WI (US)
IAP	VOR RWY 13		KETB	WEST BEND	WI (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	AGUDE		KFCM	MINNEAPOLIS	MN (US)
STAR	AGUDE		KLVN	MINNEAPOLIS	MN (US)
STAR	AGUDE		KMIC	MINNEAPOLIS	MN (US)
STAR	AGUDE		KSGS	SOUTH ST PAUL	MN (US)
STAR	AGUDE		21D	ST PAUL	MN (US)
STAR	AGUDE		KSTP	ST PAUL	MN (US)
STAR	AGUDE		KRNH	NEW RICHMOND	WI (US)
STAR	AGUDE		KOEO	OSCEOLA	WI (US)

REQUIRED CHARTING: DP, STAR, IAP, AREA, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 41 **DATE OF REVISION:** 05/14/2026

REASON FOR REVISION:
 FIX USE: REMOVED IAP VOR-A KBUU, BURLINGTON, WI.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A433 **NAME:** TROY PURNELL

APPROVED BY: **DATE:** 04/09/2026 **OFFICE:** AJV-A433 **NAME:** ROBERT HAMILTON

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: BONOT

STATE: WI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 425218.18N/0881132.31W

TYPE: WP, RADAR, 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	FAC FEET	MRA	MAA
1	MILWAUKEE	I-GMF	LOC		255.66	251.66	12.52	14.27		2900	5100
2	BADGER	BAE	VOR/DME	H	162.56	164.56	15.25	15.25		2900	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

MILWAUKEE (FAC 1) AND BADGER (FAC 2) USED TO ESTABLISH FIX COORDINATES.
DME ANTENNA LOCATION:425618.51N/0875523.66W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V191	1, 2				WI (US)
IAP	ILS OR LOC RWY 7R	1, 2		KMKE	MILWAUKEE	WI (US)
IAP	RNAV (RNP) Y RWY 7R			KMKE	MILWAUKEE	WI (US)
IAP	RNAV (GPS) RWY 4L			KMWC	MILWAUKEE	WI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

1. DELETED FIX USE STAR GOPAC (RNAV) AT KUGN, KBUU, 57C, KHXF, KENW, KMKE, KMWC, KRAC, KUES, AND KETB.
2. DELETED STAR FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: MICHAEL MCCARTNEY

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: OWYAL

STATE: WI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 430234.46N/0880607.51W

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 4L

FAC

PAT

AIRPORT IDENT
KMWC

CITY
MILWAUKEE

STATE
WI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/21/2022

REASON FOR REVISION:

1. REMARKS: DELETED "8260.54A FORMULA 2-16B APPLIED."
2. FIX USE: UPDATED IAP KMWC "RNAV (GPS) RWY 04L" TO "RNAV (GPS) RWY 4L."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: KARNA MORE

APPROVED BY:

DATE: 12/02/2021

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE: