

# RADIO FIX AND HOLDING DATA RECORD

NAME: BRNVL

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 444816.38N/0931859.44W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE  
STAR  
STAR

USE TITLE  
BAINY (RNAV)  
TORGY (RNAV)

FAC

PAT

AIRPORT IDENT  
KMSP  
KMSP

CITY  
MINNEAPOLIS  
MINNEAPOLIS

STATE  
MN (US)  
MN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/07/2025

**REASON FOR REVISION:**

1. REMOVED FIX USE: KMSP RNAV (RNP) Y RWY 35.
2. REMOVED REQUIRED CHARTING: IAP.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: BARBARA GORMAN

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

QUALITY  
35  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: GWAIT

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 443933.18N/0931836.95W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE  
STAR  
STAR

USE TITLE  
BAINY (RNAV)  
TORGY (RNAV)

FAC

PAT

AIRPORT IDENT  
KMSP  
KMSP

CITY  
MINNEAPOLIS  
MINNEAPOLIS

STATE  
MN (US)  
MN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/05/2015

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE:

OFFICE:

NAME:

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
35  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: IRRRV

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 445330.84N/0925650.32W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE  
STAR  
STAR

USE TITLE  
BAINY (RNAV)  
TORGY (RNAV)

FAC

PAT

AIRPORT IDENT  
KMSP  
KMSP

CITY  
MINNEAPOLIS  
MINNEAPOLIS

STATE  
MN (US)  
MN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/05/2015

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE:

OFFICE:

NAME:

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
35  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: JJENI

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 444104.81N/0930219.28W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE  
STAR  
STAR

USE TITLE  
BAINY (RNAV)  
TORGY (RNAV)

FAC

PAT

AIRPORT IDENT  
KMSP  
KMSP

CITY  
MINNEAPOLIS  
MINNEAPOLIS

STATE  
MN (US)  
MN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/05/2015

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE:

OFFICE:

NAME:

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
35  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: LEDRZ

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 444520.11N/0931215.69W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE  
IAP  
STAR  
STAR

USE TITLE  
RNAV (RNP) Y RWY 30L  
BAINY (RNAV)  
TORGY (RNAV)

FAC

PAT

AIRPORT IDENT  
KMSP  
KMSP  
KMSP

CITY  
MINNEAPOLIS  
MINNEAPOLIS  
MINNEAPOLIS

STATE  
MN (US)  
MN (US)  
MN (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/07/2025

**REASON FOR REVISION:**

1. MOVED FIX 1.71 NM NORTHWEST AND UPDATED COORDINATES FROM 444427.58N/0931012.34W TO 444520.11N/0931215.69W. ATC RETAINED FIX NAME FOR OPERATIONAL ADVANTAGE.
2. ADDED FIX USE: BAINY (RNAV) STAR AND TORGY (RNAV) STAR AT KMSP.
3. ADDED REQUIRED CHARTING: STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

NAME: BARBARA GORMAN

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

QUALITY  
35  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: LISEL

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 444605.47N/0931855.91W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

**FIX USE:**

**USE TYPE**

IAP

STAR

STAR

**USE TITLE**

RNAV (RNP) Y RWY 35

BAINY (RNAV)

TORG Y (RNAV)

**FAC**

**PAT**

**AIRPORT IDENT**

KMSP

KMSP

KMSP

**CITY**

MINNEAPOLIS

MINNEAPOLIS

MINNEAPOLIS

**STATE**

MN (US)

MN (US)

MN (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/07/2025

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: BARBARA GORMAN

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

QUALITY  
35  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: MAUER

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 444654.18N/0931551.42W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STAR  
STAR

USE TITLE  
BAINY (RNAV)  
TORGY (RNAV)

FAC

PAT

AIRPORT IDENT  
KMSP  
KMSP

CITY  
MINNEAPOLIS  
MINNEAPOLIS

STATE  
MN (US)  
MN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/07/2025

REASON FOR REVISION:

1. REMOVED FIX USE: KSMP RNAV (RNP) Y RWY 30L.
2. REMOVED REQUIRED CHARTING: IAP.
3. REMOVED REMARK: FIX NAME RETAINED, PER JO 7400.2K.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: BARBARA GORMAN

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

QUALITY  
35  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** MILAC

**STATE:** MN

**COUNTRY:** US

**ICAO REGION CODE:** K3

**LATITUDE/LONGITUDE:** 460129.56N/0932137.76W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** NO CHANGE

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

**USE TYPE**  
STAR

**USE TITLE**  
BAINY (RNAV)

**FAC**

**PAT**

**AIRPORT IDENT**  
KMSP

**CITY**  
MINNEAPOLIS

**STATE**  
MN (US)

**REQUIRED CHARTING:** STAR, EN ROUTE HIGH

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2

**DATE OF REVISION:** 08/07/2025

**REASON FOR REVISION:**

1. REMOVED FIX USE: KMSP RNAV (RNP) Y RWY 30L.
2. REMOVED REQUIRED CHARTING: IAP.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** BARBARA GORMAN

**APPROVED BY:**

**DATE:** 07/03/2025

**OFFICE:** AJV-A430

**NAME:** CASIMIR TABAKA

**SIGNATURE:**

QUALITY  
35  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: OGLVE

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 451853.65N/0932855.27W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STAR

USE TITLE  
BAINY (RNAV)

FAC

PAT

AIRPORT IDENT  
KMSP

CITY  
MINNEAPOLIS

STATE  
MN (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/07/2025

REASON FOR REVISION:

1. FIX MOVED 5749 FT NORTH AND UPDATED COORDINATES.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: BARBARA GORMAN

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

QUALITY  
35  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: SAUGR

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 452054.45N/0932852.21W

TYPE: WP, 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	GOPHER	GEP	VORTAC	VH	333.42	339.42	13.00	13.00		3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T383					(US)
STAR	BAINY (RNAV)			KMSP	MINNEAPOLIS	MN (US)
STAR	GOPHER	1		KMSP	MINNEAPOLIS	MN (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 08/07/2025

## REASON FOR REVISION:

1. UPDATED FIX MAKE-UP FACILITY: GOPHER (GEP) VORTAC TYPE FROM H TO VH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: BARBARA GORMAN

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

QUALITY  
35  
CHECKED