

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:



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:



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 TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
STAR	BAINY (RNAV)			KMSP	MINNEAPOLIS	MN (US)
STAR	TORGY (RNAV)			KMSP	MINNEAPOLIS	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:



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:



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 TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
IAP	RNAV (RNP) Y RWY 35			KMSP	MINNEAPOLIS	MN (US)
STAR	BAINY (RNAV)			KMSP	MINNEAPOLIS	MN (US)
STAR	TORGY (RNAV)			KMSP	MINNEAPOLIS	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:



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 TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
STAR	BAINY (RNAV)			KMSP	MINNEAPOLIS	MN (US)
STAR	TORGY (RNAV)			KMSP	MINNEAPOLIS	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:		



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 TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
STAR	BAINY (RNAV)			KMSP	MINNEAPOLIS	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:		



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	FAC	MRA	MAA
								NM	FEET		
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