

RADIO FIX AND HOLDING DATA RECORD

NAME: ELMRE

STATE: IA

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 425000.04N/0920849.87W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
DP
DP
DP
DP
DP

USE TITLE
TOTTZ (RNAV)
TOTTZ (RNAV)
HTDSH (RNAV)
TOTTZ (RNAV)
TOTTZ (RNAV)

FAC

PAT

AIRPORT IDENT
ANE
FCM
MSP
MSP
STP

CITY

MINNEAPOLIS
MINNEAPOLIS
MINNEAPOLIS
MINNEAPOLIS
ST PAUL

STATE

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

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 10/29/2026

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ZACHARY KRUEGER

APPROVED BY:

DATE: 09/24/2026

OFFICE: AJV-A422

NAME: RAKE MCGRAW

SIGNATURE:

Digitally signed by

CASEY D HILL

Jun 15, 2026



RADIO FIX AND HOLDING DATA RECORD

NAME: EXTEE

STATE: IA

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 424958.67N/0922633.43W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
DP
DP
DP
DP
DP

USE TITLE
TOTTZ (RNAV)
TOTTZ (RNAV)
HTDSH (RNAV)
TOTTZ (RNAV)
TOTTZ (RNAV)

FAC

PAT

AIRPORT IDENT
ANE
FCM
MSP
MSP
STP

CITY
MINNEAPOLIS
MINNEAPOLIS
MINNEAPOLIS
MINNEAPOLIS
ST PAUL

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

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 10/29/2026

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ZACHARY KRUEGER

APPROVED BY:

DATE: 09/24/2026

OFFICE: AJV-A422

NAME: RAKE MCGRAW

SIGNATURE:

Digitally signed by
CASEY D HILL
Jun 15, 2026

QUALITY
8
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FOOLS

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 434658.20N/0923544.93W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TOTTZ (RNAV)			ANE	MINNEAPOLIS	MN (US)
DP	TOTTZ (RNAV)			FCM	MINNEAPOLIS	MN (US)
DP	HTDSH (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	TOTTZ (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	TOTTZ (RNAV)			STP	ST PAUL	MN (US)
EN ROUTE	T348					(US)

REQUIRED CHARTING: DP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 10/29/2026

REASON FOR REVISION:

1. ADDED DP HTDSH (RNAV) AT KMSP TO FIX USE.
2. ADDED DP TOTTZ (RNAV) AT KMSP, KANE, KFCM, AND KSTP TO FIX USE.
3. ADDED DP TO REQUIRED CHARTING.
4. REMOVED AIRSPACE DOCKET 19-AGL-16.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ZACHARY KRUEGER

APPROVED BY:

DATE: 09/24/2026

OFFICE: AJV-A422

NAME: RAKE MCGRAW

SIGNATURE:

Digitally signed by

CASEY D HILL

Jun 15, 2026



RADIO FIX AND HOLDING DATA RECORD

NAME: OANNA

STATE: IA

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 423321.12N/0920107.81W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TOTTZ (RNAV)			ANE	MINNEAPOLIS	MN (US)
DP	TOTTZ (RNAV)			FCM	MINNEAPOLIS	MN (US)
DP	HTDSH (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	TOTTZ (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	TOTTZ (RNAV)			STP	ST PAUL	MN (US)

REQUIRED CHARTING: DP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 10/29/2026

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ZACHARY KRUEGER

APPROVED BY:

DATE: 09/24/2026

OFFICE: AJV-A422

NAME: RAKE MCGRAW

SIGNATURE:

Digitally signed by

ALLAN WILL

Aug 26, 2026



RADIO FIX AND HOLDING DATA RECORD

NAME: OHHMY

STATE: IA

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 425253.00N/0914530.00W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TOTTZ (RNAV)			ANE	MINNEAPOLIS	MN (US)
DP	TOTTZ (RNAV)			FCM	MINNEAPOLIS	MN (US)
DP	HTDSH (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	TOTTZ (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	TOTTZ (RNAV)			STP	ST PAUL	MN (US)
STAR	ENDEE (RNAV)			MDW	CHICAGO	IL (US)

REQUIRED CHARTING: DP, STAR, EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 10/29/2026

REASON FOR REVISION:

1. ADDED DP HTDSH (RNAV) AT KMSP TO FIX USE.
2. ADDED DP TOTTZ (RNAV) AT KMSP, KANE, KFCP AND KSTP TO FIX USE.
3. ADDED DP AND CONTROLLER HIGH TO REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ZACHARY KRUEGER

APPROVED BY:

DATE: 09/24/2026

OFFICE: AJV-A422

NAME: RAKE MCGRAW

Digitally signed by

SIGNATURE:

CASEY D HILL

Jun 15, 2026



RADIO FIX AND HOLDING DATA RECORD

NAME: TOTTZ

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 441928.56N/0925807.66W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
DP
DP
DP
DP
DP

USE TITLE
TOTTZ (RNAV)
TOTTZ (RNAV)
HTDSH (RNAV)
TOTTZ (RNAV)
TOTTZ (RNAV)

FAC

PAT

AIRPORT IDENT
ANE
FCM
MSP
MSP
STP

CITY

MINNEAPOLIS
MINNEAPOLIS
MINNEAPOLIS
MINNEAPOLIS
ST PAUL

STATE

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

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 10/29/2026

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ZACHARY KRUEGER

APPROVED BY:

DATE: 09/24/2026

OFFICE: AJV-A422

NAME: RAKE MCGRAW

Digitally signed by

SIGNATURE:

CASEY D HILL

Jun 15, 2026

QUALITY
8
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZZIPR

STATE: IA

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 431109.00N/0913933.00W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NW		WP	297.80	117.80	L		10	18000	45000	17	30

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TOTTZ (RNAV)			ANE	MINNEAPOLIS	MN (US)
DP	TOTTZ (RNAV)			FCM	MINNEAPOLIS	MN (US)
DP	HTDSH (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	TOTTZ (RNAV)			MSP	MINNEAPOLIS	MN (US)
DP	TOTTZ (RNAV)			STP	ST PAUL	MN (US)
EN ROUTE	Q156		1			(US)
STAR	FYTTE (RNAV)		1	ORD	CHICAGO	IL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 10/29/2026

REASON FOR REVISION:

1. ADDED DP HTDSH (RNAV) AT KMSP TO FIX USE.
2. ADDED DP TOTTZ (RNAV) AT KMSP, KANE, KFCM AND KSTP TO FIX USE.
3. ADDED DP TO REQUIRED CHARTING.
4. ADDED CONTROLLER LOW AND CONTROLLER HIGH TO REQUIRED CHARTING.

09/16/26: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 06/15/26.

1. FIX USE: HOLDING PATTERN 1 ADDED TO EN ROUTE Q156.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ZACHARY KRUEGER

APPROVED BY:

DATE: 09/24/2026

OFFICE: AJV-A422

NAME: RAKE MCGRAW

SIGNATURE:

Digitally signed by

APRIL T SARMENTO

Sep 17, 2026

