

# RADIO FIX AND HOLDING DATA RECORD

NAME: BOCAH

STATE: IL

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 415100.78N/0872015.49W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STAR  
STAR

USE TITLE  
FISSK (RNAV)  
PANGG (RNAV)

FAC

PAT

AIRPORT IDENT  
KMDW  
KMDW

CITY  
CHICAGO  
CHICAGO

STATE  
IL (US)  
IL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/20/2023

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: COLIN CAMPBELL

APPROVED BY:

DATE: 04/20/2023

OFFICE: AJV-A421

NAME: JASON KRETSCHMER

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** ELLJO

**STATE:** IN

**COUNTRY:** US

**ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 413453.03N/0872252.46W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** MODIFY

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**REMARKS:**

NAME CHANGED FROM HAADN TO ELLJO.

**FIX USE:**

**USE TYPE**

STAR  
STAR

**USE TITLE**

FISSK (RNAV)  
PANGG (RNAV)

**FAC**

**PAT**

**AIRPORT IDENT**

KMDW  
KMDW

**CITY**

CHICAGO  
CHICAGO

**STATE**

IL (US)  
IL (US)

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1

**DATE OF REVISION:** 06/12/2025

**REASON FOR REVISION:**

NAME CHANGED FROM HAADN TO ELLJO.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A433

**NAME:** GUY COPELAND

**APPROVED BY:**

**DATE:** 05/08/2025

**OFFICE:** AJV-A430

**NAME:** BEV L BORDY

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** GERMN

**STATE:** IN

**COUNTRY:** US

**ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 414206.60N/0871506.58W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** MODIFY

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

**USE TYPE**  
STAR  
STAR

**USE TITLE**  
FISSK (RNAV)  
PANGG (RNAV)

**FAC**

**PAT**

**AIRPORT IDENT**  
KMDW  
KMDW

**CITY**  
CHICAGO  
CHICAGO

**STATE**  
IL (US)  
IL (US)

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1

**DATE OF REVISION:** 07/24/2014

**REASON FOR REVISION:**

UPDATE FIX COORDINATES, FIX MOVED 3.5 NM NORTH EAST (FIX NAME RETAINED AT ATC REQUEST).

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 01/22/2014

**OFFICE:** AJV-353

**NAME:** THOMAS KIRKPATRICK

**APPROVED BY:**

**DATE:** 07/24/2014

**OFFICE:** AJV-353

**NAME:** GEORGE GONZALEZ

**SIGNATURE:**

**DISTRIBUTION:**

**NFDC**  
**FPO:** CEN  
**ARTCC:** ZAU  
**ATC FACILITY:** MDW TOWER, ORD APP CON  
**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: HILLS

STATE: IL

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413725.40N/0873134.18W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	CHICAGO MIDWAY	I-MXT	LOC/DME		137.56	133.56	14.59	14.63		5000	5100
2	CHICAGO HEIGHTS	CGT	VORTAC	L	014.67	016.67		7.12		2200	5100

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

CHICAGO MIDWAY (FAC 1) AND CHICAGO HEIGHTS (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
I-MXT DME COORDINATES: 414732.95N/0874536.16W.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 31R	1, 2		KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) Z RWY 31R			KMDW	CHICAGO	IL (US)
IAP	RNAV (RNP) Y RWY 31R			KMDW	CHICAGO	IL (US)
STAR	FISSK (RNAV)			KMDW	CHICAGO	IL (US)
STAR	PANGG (RNAV)			KMDW	CHICAGO	IL (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 06/12/2025

## REASON FOR REVISION:

REMOVED FIX USE FOR IAP ILS OR LOC RWY 31C, IAP RNAV (GPS) Z RWY 31C, IAP RNAV (RNP) Y RWY 31C, SPECIAL IAP ILS Z RWY 31C.  
ADDED FIX USE FOR IAP ILS OR LOC RWY 31R, IAP RNAV (GPS) Z RWY 31R, IAP RNAV (RNP) Y RWY 31R.  
REMOVED SPECIAL IAP FROM REQUIRED CHARTING.  
UPDATED FIX MAKE-UP FACILITIES FROM 137.57MAG/133.57TRUE TO 137.56MAG/133.56TRUE FOR I-MXT.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: TROY PURNELL

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: LNAME

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 414518.38N/0871642.92W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE  
STAR  
STAR

USE TITLE  
FISSK (RNAV)  
PANGG (RNAV)

FAC

PAT

AIRPORT IDENT  
KMDW  
KMDW

CITY  
CHICAGO  
CHICAGO

STATE  
IL (US)  
IL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 06/12/2025

**REASON FOR REVISION:**

CORRECTED STATE IDENT FROM IL TO IN.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: GUY COPELAND

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A430

NAME: BEV L BORDY

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** OLCYK

**STATE:** IL

**COUNTRY:** US

**ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 413224.69N/0873616.06W

**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 4R

FISSK (RNAV)

PANGG (RNAV)

**FAC**

**PAT**

**AIRPORT IDENT**

KMDW

KMDW

KMDW

**CITY**

CHICAGO

CHICAGO

CHICAGO

**STATE**

IL (US)

IL (US)

IL (US)

**REQUIRED CHARTING:** STAR, IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 06/27/2013

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 01/16/2013

**OFFICE:** AJV-353

**NAME:** THOMAS KIRKPATRICK

**APPROVED BY:**

**DATE:** 04/30/2013

**OFFICE:** AJV-353

**NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:**

**NFDC**

**FPO:** CEN

**ARTCC:** ZAU

**ATC FACILITY:** MDW TOWER, ORD APP CON

**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: STASH

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 414615.08N/0861923.31W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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	E		WP	090.00	270.00	R	10	6000	10000	15	15

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-001499)	414457.60N/0860710.50W	1300	2C

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	FISSK (RNAV)		1	KMDW	CHICAGO	IL (US)
STAR	PANGG (RNAV)		1	KMDW	CHICAGO	IL (US)
STAR	ERNNY (RNAV)			KORD	CHICAGO	IL (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 04/20/2023

## REASON FOR REVISION:

HOLDING: ADDED PATTERN 1 WITH ASSOCIATED CONTROLLING OBSTACLE, RESTRICTION, AND REMARK  
FIX USE: ADDED "FISSK (RNAV)" AND "PANGG (RNAV)" STARS

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: COLIN CAMPBELL

APPROVED BY:

DATE: 04/20/2023

OFFICE: AJV-A421

NAME: JASON KRETSCHMER

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: TACTT

STATE: IL

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 415100.82N/0872616.77W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

### USE TYPE

IAP	RNAV (GPS) Z RWY 22L
IAP	RNAV (RNP) Y RWY 22L
STAR	FISSK (RNAV)
STAR	PANGG (RNAV)

### FAC

### PAT

### AIRPORT IDENT

KMDW
KMDW
KMDW
KMDW

### CITY

CHICAGO
CHICAGO
CHICAGO
CHICAGO

### STATE

IL (US)
IL (US)
IL (US)
IL (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/20/2023

## REASON FOR REVISION:

FIX USE: ADDED "FISSK (RNAV)" AND "PANGG (RNAV)" STARS  
REQUIRED CHARTING: ADDED "STAR"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: COLIN CAMPBELL

APPROVED BY:

DATE: 04/20/2023

OFFICE: AJV-A421

NAME: JASON KRETSCHMER

SIGNATURE:



# RADIO FIX AND HOLDING DATA RECORD

**NAME:** TINLY

**STATE:** IL

**COUNTRY:** US

**ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 413319.08N/0875057.56W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** NO CHANGE

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

**USE TYPE**

IAP

STAR

STAR

**USE TITLE**

RNAV (RNP) Y RWY 13L

FISSK (RNAV)

PANGG (RNAV)

**FAC**

**PAT**

**AIRPORT IDENT**

KMDW

KMDW

KMDW

**CITY**

CHICAGO

CHICAGO

CHICAGO

**STATE**

IL (US)

IL (US)

IL (US)

**REQUIRED CHARTING:** STAR, IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1

**DATE OF REVISION:** 06/12/2025

**REASON FOR REVISION:**

FIX USE: ADDED KMDW RNAV (RNP) Y RWY 13L, DELETED RNAV (RNP) Y RWY 13C.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A433

**NAME:** RAFAEL MARTINEZ

**APPROVED BY:**

**DATE:** 05/08/2025

**OFFICE:** AJV-A430

**NAME:** BEV L BORDY

**SIGNATURE:**