

# RADIO FIX AND HOLDING DATA RECORD

NAME: AWSUM

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413119.74N/0863423.35W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STAR

USE TITLE  
PANGG (RNAV)

FAC

PAT

AIRPORT IDENT  
KMDW

CITY  
CHICAGO

STATE  
IL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

REMOVED DME FROM FIX TYPE.

REMOVED FAC 1 GSH VORTAC FROM FIX MAKE-UP FACILITIES.

REMOVED STAR GOSHEN FOR KIGQ, KMDW, KGGY, 05C AND 3HO AIRPORTS FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SILVIA YOUNG

APPROVED BY:

DATE: 03/13/2025

OFFICE: AJV-A432

NAME: JOSEPH ZEDER

SIGNATURE:

*Digitally signed by*  
**CASIMIR L TABAKA**  
Feb 13, 2025

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: BAGEL

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413057.51N/0853649.28W

TYPE: WP, 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	MRA	MAA
1	GOSHEN	GSH	VORTAC	H	091.55	091.55	18.68	18.68	2700	17500
2	FORT WAYNE	FWA	VORTAC	VH	335.25	329.25	37.52	37.52	2700	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH DME	HOLDING ALTITUDES MIN	TEMPLATES MIN
1	SW		WP	206.00	026.00	R	4	3000	5

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-020564)	412646.41N/0853123.48W	1315	4D

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

## REMARKS:

GOSHEN (FAC 1) AND FORT WAYNE (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	GTLKE (RNAV)			KBKL	CLEVELAND	OH (US)
DP	GTLKE (RNAV)			KCGF	CLEVELAND	OH (US)
DP	GTLKE (RNAV)			KCLE	CLEVELAND	OH (US)
DP	GTLKE (RNAV)			KLPR	LORAIN/ELYRIA	OH (US)
DP	GTLKE (RNAV)			KLNN	WILLOUGHBY	OH (US)
EN ROUTE	V126	1, 2				(US)
EN ROUTE	V277					(US)
IAP	RNAV (GPS) RWY 36			KEKM	ELKHART	IN (US)
IAP	RNAV (GPS) RWY 10			C62	KENDALLVILLE	IN (US)
IAP	RNAV (GPS) RWY 28		1	C62	KENDALLVILLE	IN (US)
IAP	RNAV (GPS) RWY 27			KASW	WARSAW	IN (US)
STAR	PANGG (RNAV)			KMDW	CHICAGO	IL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 04/17/2025

## REASON FOR REVISION:

REMOVED STAR GOSHEN FOR KIGQ, KMDW, KGYG, 05C AND 3HO AIRPORTS FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SILVIA YOUNG

APPROVED BY:

DATE: 03/13/2025

OFFICE: AJV-A432

NAME: JOSEPH ZEDER

SIGNATURE:

Digitally signed by  
**CASIMIR L TABAKA**  
Feb 13, 2025

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: CHICAGO HEIGHTS VORTAC

STATE: IL

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413036.02N/0873417.57W

TYPE:

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 FEET	MRA	MAA
1	CHICAGO HEIGHTS	CGT	VORTAC	L						17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SE	CGT	VORTAC	156.00	336.00	R	1	2300 6000	4 5
2	SW	CGT	VORTAC	223.93	043.93	R	1	2300 6000	4 5
3	SW	CGT	VORTAC	226.27	046.27	R	1	2300 6000	4 5
4	W	CGT	VORTAC	263.90	083.90	R	1	2300 6000	4 5
5	SW	CGT	VORTAC	229.20	049.20	R	1	2300 6000	4 5
6	NW	CGT	VORTAC	332.74	152.74	R	1	2300 6000	4 5
7	SE	WP	WP	156.00	336.00	R	4	4000 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-000501)	412552.00N/0872937.00W	1103	5D
2	200	TOWER (17-002211)	412715.00N/0874322.00W	1290	5D
3	200	TOWER (17-002211)	412715.00N/0874322.00W	1290	5D
4	200	TOWER (17-002211)	412715.00N/0874322.00W	1290	5D
5	200	TOWER (17-002211)	412715.00N/0874322.00W	1290	5D
6	200	TOWER (17-002719)	413715.00N/0874055.00W	1049	5D
7	200	TOWER (18-000501)	412552.00N/0872937.00W	1103	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
FACILITY MAG VAR 2E/1965.  
PAT 3 ATC USE ONLY.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
SPECIAL IAP	ILS Z RWY 31C		2	KMDW	CHICAGO	IL (US)
DP	CICERO			KMDW	CHICAGO	IL (US)
DP	MIDWAY			KMDW	CHICAGO	IL (US)
EN ROUTE	V51					(US)
EN ROUTE	V7					(US)
EN ROUTE	V8					(US)
EN ROUTE	V92					(US)
EN ROUTE	V97					(US)
IAP	LOC RWY 36		6	KIGQ	CHICAGO	IL (US)
IAP	VOR-A		5	KIGQ	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 31C		2	KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 13C			KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 4R		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 13L			KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 22R			KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 31R			KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 4L			KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 10C		1	KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 10L		1	KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 22L		1	KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 27L			KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 28L		1	KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 4R		1	KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 9R			KORD	CHICAGO	IL (US)
IAP	ILS PRM RWY 10C		1	KORD	CHICAGO	IL (US)
IAP	ILS PRM RWY 10C (CAT II, III)		1	KORD	CHICAGO	IL (US)
IAP	ILS PRM RWY 10C (CLOSE PARALLEL)		1	KORD	CHICAGO	IL (US)
IAP	ILS PRM RWY 10C (SA CAT I)		1	KORD	CHICAGO	IL (US)
IAP	ILS RWY 10C (CAT II, III)		1	KORD	CHICAGO	IL (US)
IAP	ILS RWY 10C (SA CAT I)		1	KORD	CHICAGO	IL (US)
IAP	ILS RWY 10L (CAT II, III)		1	KORD	CHICAGO	IL (US)
IAP	ILS RWY 10L (SA CAT I)		1	KORD	CHICAGO	IL (US)
IAP	ILS RWY 27L (CAT II, III)			KORD	CHICAGO	IL (US)
IAP	ILS RWY 27L (SA CAT I)			KORD	CHICAGO	IL (US)
IAP	ILS RWY 28L (CAT II, III)		1	KORD	CHICAGO	IL (US)
IAP	ILS RWY 28L (SA CAT I)		1	KORD	CHICAGO	IL (US)
IAP	ILS RWY 9R (CAT II)			KORD	CHICAGO	IL (US)

QUALITY  
14  
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IAP	ILS RWY 9R (CAT III)		KORD	CHICAGO	IL (US)
IAP	RNAV (GPS) PRM RWY 10C	7	KORD	CHICAGO	IL (US)
IAP	RNAV (GPS) PRM RWY 10C (CLOSE PARALLEL)	1	KORD	CHICAGO	IL (US)
IAP	RNAV (GPS) PRM Y RWY 28L		KORD	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 10C	7	KORD	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 10L	7	KORD	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 22L	7	KORD	CHICAGO	IL (US)
IAP	RNAV (GPS) Y RWY 28L		KORD	CHICAGO	IL (US)
IAP	RNAV (GPS) Z RWY 28L	7	KORD	CHICAGO	IL (US)
IAP	LOC/DME RWY 09		KLOT	CHICAGO/ROMEOVILLE	IL (US)
IAP	RNAV (GPS) RWY 27		KLOT	CHICAGO/ROMEOVILLE	IL (US)
IAP	RNAV (GPS) RWY 27		C56	MONEE	IL (US)
IAP	RNAV (GPS) RWY 9		C56	MONEE	IL (US)
IAP	COPTER ILS OR LOC RWY 30	1	KGYG	GARY/CHICAGO	IN (US)
IAP	ILS OR LOC RWY 30	1	KGYG	GARY/CHICAGO	IN (US)
IAP	RNAV (GPS) Y RWY 30		KGYG	GARY/CHICAGO	IN (US)
IAP	RNAV (GPS) RWY 26		05C	GRIFFITH	IN (US)
IAP	VOR RWY 8	4	05C	GRIFFITH	IN (US)
IAP	ILS OR LOC RWY 27		KVPZ	VALPARAISO	IN (US)
IAP	RNAV (GPS) RWY 27		KVPZ	VALPARAISO	IN (US)

**REQUIRED CHARTING:** DP, IAP, AREA, EN ROUTE LOW, SPECIAL IAP, CONTROLLER LOW

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 34

**DATE OF REVISION:** 04/17/2025

**REASON FOR REVISION:**

REMOVED AIRSPACE DOCKET #23-ASO-19.

REMOVED STAR GOSHEN FOR KIGQ, KMDW, KGYG, 05C AND 3HO AIRPORTS FROM FIX USE.

REMOVED STAR FROM REQUIRED CHARTING.

12/19/24: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/18/2024.

1. ADDED ENROUTE V97 TO FIX USE.

2. CHANGED FIX RECORD REVISION NUMBER FROM 35 TO 34.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** SILVIA YOUNG

**APPROVED BY:**

**DATE:** 03/13/2025

**OFFICE:** AJV-A432

**NAME:** JOSEPH ZEDER

**SIGNATURE:**

*Digitally signed by*

**CASIMIR L TABAKA**

Feb 13, 2025

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: FORT WAYNE VORTAC STATE: IN COUNTRY: US ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 405844.63N/0851117.01W TYPE:

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	FEET	MRA	MAA
1	FORT WAYNE	FWA	VORTAC	VH							45000

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 ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE	FWA	VORTAC	140.75	320.75	R	1		4000	6000	4	5

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-000023)	410012.00N/0850559.00W	1159	4D

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
ASSIGNED FACILITY MAG VAR: 6W 2020.  
PAT 1 AT ATC REQUEST.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DAYTON			KDAY	DAYTON	OH (US)
EN ROUTE	J149					(US)
EN ROUTE	J178					(US)
EN ROUTE	J64					(US)
EN ROUTE	V11					(US)
EN ROUTE	V144					(US)
EN ROUTE	V221					(US)
EN ROUTE	V277					(US)
EN ROUTE	V38					(US)
EN ROUTE	V55					(US)
EN ROUTE	V96					(US)
IAP	ILS OR LOC RWY 27			KGWB	AUBURN	IN (US)
IAP	RNAV (GPS) RWY 9			KGWB	AUBURN	IN (US)
IAP	VOR-A			KGWB	AUBURN	IN (US)
IAP	ILS OR LOC RWY 32			KFWA	FORT WAYNE	IN (US)
IAP	ILS OR LOC RWY 5			KFWA	FORT WAYNE	IN (US)
IAP	ILS RWY 05 (CAT II)			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 14			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 23			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 32			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 5			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 5			KFWA	FORT WAYNE	IN (US)
IAP	VOR OR TACAN RWY 23			KFWA	FORT WAYNE	IN (US)
IAP	VOR OR TACAN RWY 5			KFWA	FORT WAYNE	IN (US)
IAP	VOR OR TACAN RWY 14			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 31			KSMD	FORT WAYNE	IN (US)
IAP	VOR RWY 13			KSMD	FORT WAYNE	IN (US)
IAP	VOR-A			KHHG	HUNTINGTON	IN (US)
IAP	RNAV (GPS) RWY 23			KOKK	KOKOMO	IN (US)
IAP	ILS OR LOC RWY 27		1	KASW	WARSAW	IN (US)
IAP	ILS OR LOC RWY 27			KASW	WARSAW	IN (US)
IAP	HI-ILS OR LOC RWY 25			KTOL	TOLEDO	OH (US)
IAP	HI-ILS Y OR LOC Y RWY 7			KTOL	TOLEDO	OH (US)
IAP	HI-TACAN RWY 25			KTOL	TOLEDO	OH (US)
IAP	HI-TACAN RWY 7			KTOL	TOLEDO	OH (US)
STAR	PANGG (RNAV)			KMDW	CHICAGO	IL (US)
STAR	ESSPO (RNAV)			KORD	CHICAGO	IL (US)
STAR	VEECK (RNAV)			KORD	CHICAGO	IL (US)
STAR	WATSN (RNAV)			KORD	CHICAGO	IL (US)
STAR	CLANG			KEYE	INDIANAPOLIS	IN (US)
STAR	CLANG			KIND	INDIANAPOLIS	IN (US)
STAR	CLANG			KMQJ	INDIANAPOLIS	IN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 29

DATE OF REVISION: 04/17/2025

QUALITY  
14  
CHECKED

**REASON FOR REVISION:**

REMOVED STAR GOSHEN FOR KIGQ, KMDW, KGYG, 05C AND 3HO AIRPORTS FROM FIX USE.

**INITIATED BY:****DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** SILVIA YOUNG**APPROVED BY:****DATE:** 03/13/2025**OFFICE:** AJV-A432**NAME:** JOSEPH ZEDER**SIGNATURE:**

*Digitally signed by*  
**CASIMIR L TABAKA**  
Feb 13, 2025

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: GIPPER VORTAC

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 414607.00N/0861906.43W

TYPE:

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 FEET	MRA	MAA
1	GIPPER	GIJ	VORTAC	H						45000

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	N	GIJ	VORTAC	000.87	180.87	L	1	2300 10000	4 9
2	W	GIJ	VORTAC	281.93	101.93	R	1	2400 10000	4 9
3	W	GIJ	VORTAC	270.00	090.00	R	1 1/2	18000 45000	16 29
4	E		WP	090.00	270.00	R		6000 10000	15 15

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-001350)	415251.00N/0861813.00W	1250	5D
2	200	TOWER (18-001917)	414434.34N/0863125.89W	1172	4D
4	230	TOWER (18-001499)	414457.00N/0860711.00W	1300	5D

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.  
PATTERN 4: EVALUATED AT 10 DME LEG LENGTH AT ATC REQUEST.  
ASSIGNED FACILITY MAG VAR: 00E 1965

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CICERO			KMDW	CHICAGO	IL (US)
DP	MIDWAY			KMDW	CHICAGO	IL (US)
DP	O'HARE			KORD	CHICAGO	IL (US)
DP	PAL-WAUKEE			KPWK	CHICAGO/PROSPECT HGTS/WHEELING	IL (US)
DP	MITCHELL			KMKE	MILWAUKEE	WI (US)
EN ROUTE	J146		3			(US)
EN ROUTE	J554		3			(US)
EN ROUTE	V10					(US)
EN ROUTE	V156					(US)
EN ROUTE	V228					(US)
EN ROUTE	V526					(US)
EN ROUTE	V55					(US)
EN ROUTE	V6					(US)
EN ROUTE	V6-10					(US)
IAP	ILS OR LOC RWY 27			KEKM	ELKHART	IN (US)
IAP	RNAV (GPS) RWY 18			KEKM	ELKHART	IN (US)
IAP	RNAV (GPS) RWY 36			KEKM	ELKHART	IN (US)
IAP	VOR RWY 9		2	KEKM	ELKHART	IN (US)
IAP	ILS OR LOC RWY 27		1	KGSH	GOSHEN	IN (US)
IAP	RNAV (GPS) RWY 02			KPPO	LA PORTE	IN (US)
IAP	RNAV (GPS) RWY 20			KPPO	LA PORTE	IN (US)
IAP	ILS OR LOC RWY 27L		1	KSBN	SOUTH BEND	IN (US)
IAP	ILS OR LOC RWY 9R		1	KSBN	SOUTH BEND	IN (US)
IAP	ILS RWY 27L (SA CAT I & II)		1	KSBN	SOUTH BEND	IN (US)
IAP	VOR RWY 18		1	KSBN	SOUTH BEND	IN (US)
IAP	VOR RWY 28			KBEH	BENTON HARBOR	MI (US)
IAP	RNAV (GPS) RWY 09			C91	DOWAGIAC	MI (US)
IAP	RNAV (GPS) RWY 5			KAZO	KALAMAZOO	MI (US)
IAP	RNAV (GPS) RWY 15			3TR	NILES	MI (US)
IAP	RNAV (GPS) RWY 33			3TR	NILES	MI (US)
IAP	VOR-A			3TR	NILES	MI (US)
STAR	FISSK (RNAV)		4	KMDW	CHICAGO	IL (US)
STAR	PANGG (RNAV)		4	KMDW	CHICAGO	IL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 36

DATE OF REVISION: 04/17/2025

QUALITY  
14  
CHECKED

**REASON FOR REVISION:**

CHANGED PAT 2 200 TOWER (18-001917) COORDINATES FROM "414435.00N/0863125.00W" TO "414434.34N/0863125.89W", ELEVATION FROM 1180 TO 1172, AND ACCURACY CODE FROM 5D TO 4D IN CONTROLLING OBSTRUCTIONS.  
REMOVED STAR GOSHEN FOR KIGQ, KMDW, KGYG, 05C AND 3HO AIRPORTS FROM FIX USE.  
REMOVED IAPS ILS OR LOC RWY 9R, ILS OR LOC RWY 27L AND ILS RWY 27L (SA CAT I & II) FOR KSBN AIRPORT FROM FIX USE.

02/12/2025: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/18/2024.

ADDED IAPS ILS OR LOC RWY 9R, ILS OR LOC RWY 27L AND ILS RWY 27L (SA CAT I & II) FOR KSBN AIRPORT TO FIX USE.

**INITIATED BY:****DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** SILVIA YOUNG**APPROVED BY:****DATE:** 03/13/2025**OFFICE:** AJV-A432**NAME:** JOSEPH ZEDER**SIGNATURE:***Digitally signed by***CASIMIR L TABAKA**

Feb 13, 2025

QUALITY  
14  
CHECKED



# RADIO FIX AND HOLDING DATA RECORD

NAME: GOSHEN VORTAC

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413130.56N/0860140.63W

TYPE:

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 FEET	MRA	MAA
1	GOSHEN	GSH	VORTAC	H						45000

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	W	GSH	VORTAC	270.00	090.00	R	1	2500 14000	4 10
2	W		WP	270.00	090.00	R	4	2500 14000	5 11

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-002450)	412658.17N/0860430.00W	1349	5D
2	200	TOWER (18-002450)	412658.17N/0860430.00W	1349	5D

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
ASSIGNED FACILITY MAGVAR: 0 DEGREES EAST/1965.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J60					(US)
EN ROUTE	J82					(US)
EN ROUTE	V126					(US)
EN ROUTE	V233					(US)
EN ROUTE	V55					(US)
EN ROUTE	V8					(US)
EN ROUTE	V92					(US)
IAP	RNAV (GPS) RWY 27			KEKM	ELKHART	IN (US)
IAP	RNAV (GPS) RWY 9			KEKM	ELKHART	IN (US)
IAP	ILS OR LOC RWY 32			KFWA	FORT WAYNE	IN (US)
IAP	ILS OR LOC RWY 5			KFWA	FORT WAYNE	IN (US)
IAP	ILS RWY 5 (CAT II)			KFWA	FORT WAYNE	IN (US)
IAP	ILS OR LOC RWY 27		1	KGSH	GOSHEN	IN (US)
IAP	RNAV (GPS) RWY 27		2	KGSH	GOSHEN	IN (US)
IAP	RNAV (GPS) RWY 9		2	KGSH	GOSHEN	IN (US)
IAP	VOR RWY 9		1	KGSH	GOSHEN	IN (US)
IAP	ILS OR LOC RWY 27L			KSBN	SOUTH BEND	IN (US)
IAP	ILS OR LOC RWY 9R			KSBN	SOUTH BEND	IN (US)
IAP	ILS RWY 27L (SA CAT I & II)			KSBN	SOUTH BEND	IN (US)
IAP	RNAV (GPS) RWY 27L			KSBN	SOUTH BEND	IN (US)
IAP	RNAV (GPS) RWY 27R			KSBN	SOUTH BEND	IN (US)
IAP	RNAV (GPS) RWY 36			KSBN	SOUTH BEND	IN (US)
IAP	RNAV (GPS) RWY 9			KASW	WARSAW	IN (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 29

DATE OF REVISION: 04/17/2025

## REASON FOR REVISION:

REMOVED PAT 2 AND PAT 3 HOLDINGS AND THEIR ASSOCIATED CONTROLLING OBSTACLES FROM HOLDING PATTERNS  
RENUMBERED ALL HOLDING PATTERNS AND ALL CONTROLLING OBSTRUCTIONS.  
REMOVED "PAT 2 SEPARATION OF SBN TRAFFIC" FROM REASON FOR NONSTANDARD HOLDING.  
REMOVED STAR GOSHEN FOR KIGQ, KMDW, KGYG, 05C AND 3HO AIRPORTS FROM FIX USE.  
REMOVED IAP VOR OR GPS-B FOR C03 AIRPORT FROM FIX USE.  
REMOVED IAPS ILS OR LOC RWY 27 AND VOR RWY 9 FOR KEKM AIRPORT FROM FIX USE.  
REMOVED STAR FROM REQUIRED CHARTING.

02/12/2025: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/18/2024.

ADDED IAPS ILS OR LOC RWY 9R, ILS OR LOC RWY 27L AND ILS RWY 27L (SA CAT I & II) FOR KSBN AIRPORT TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SILVIA YOUNG

QUALITY  
14  
CHECKED

APPROVED BY:

DATE: 03/13/2025

OFFICE: AJV-A432

NAME: JOSEPH ZEDER

SIGNATURE:

*Digitally signed by*  
**CASIMIR L TABAKA**  
Feb 13, 2025

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: HALIE

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413057.85N/0870931.95W

TYPE: WP, 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	FEET	MRA	MAA
1	CHICAGO HEIGHTS	CGT	VORTAC	L	086.74	088.74	18.60	18.60		2600	17500

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE		WP	124.27	304.27	R		5	2400	10000	5	10
2	SE		WP	120.00	300.00	L		7	11000	23000	10	20
3	SE		WP	117.00	297.00	L		8	7000	31000	11	24
4	E		WP	093.18	273.18	L		8	2400	6000	11	12
5	SE		WP	117.00	297.00	L		10	7000	31000	15	24

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-000847)	413117.00N/0870126.00W	1320	2C
2	230	TOWER (18-000847)	413117.00N/0870126.00W	1320	2C
3	230	TOWER (18-000847)	413117.00N/0870126.00W	1320	2C
4	200	TOWER (18-000847)	413117.00N/0870126.00W	1320	2C
5	230	TOWER (18-000847)	413117.00N/0870126.00W	1320	2C

REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUEST  
PAT 3 ATC REQUEST  
PAT 4 ATC REQUEST  
PAT 5 ATC REQUEST

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
HOLDING PATTERN 3 & 5 USED TEMPLATE 11 FOR 8 DME LEG LENGTH AT ATC REQUEST.  
HOLDING PATTERN 6 USED TEMPLATE 15 FOR 10 DME LEG LENGTH AT ATC REQUEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V8	1				(US)
EN ROUTE	V92	1				(US)
IAP	RNAV (GPS) RWY 27			KIGQ	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 20		1	KGYG	GARY/CHICAGO	IN (US)
IAP	RNAV (GPS) RWY 18			KOXI	KNOX	IN (US)
STAR	FISSK (RNAV)			KMDW	CHICAGO	IL (US)
STAR	PANGG (RNAV)		4	KMDW	CHICAGO	IL (US)
STAR	ESSPO (RNAV)		3	KORD	CHICAGO	IL (US)
STAR	VEECK (RNAV)		5	KORD	CHICAGO	IL (US)
STAR	WATSN (RNAV)		3	KORD	CHICAGO	IL (US)

REQUIRED CHARTING: STAR, IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

REMOVED PAT 4 HOLDING WITH ITS ASSOCIATED CONTROLLING OBSTACLE AND NOTES FROM HOLDING PATTERNS.  
RENUMBERED ALL HOLDING PATTERNS AND CONTROLLING OBSTACLES.  
REMOVED STAR GOSHEN FOR KIGQ, KMDW, KGYG, 05C AND 3HO AIRPORTS FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SILVIA YOUNG

APPROVED BY:

DATE: 03/13/2025

OFFICE: AVJ-A432

NAME: JOSEPH ZEDER

SIGNATURE:

Digitally signed by  
CASIMIR L TABAKA

Feb 13, 2025

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: IROCK

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413108.73N/0865418.71W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

## 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	093.41	273.41	R	10	3400	10000	15	17

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-000847)	413117.00N/0870126.00W	1320	2C

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
HOLDING PATTERN 1 USED TEMPLATE 15 FOR 10 DME LEG LENGTH AT ATC REQUEST.

## FIX USE:

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

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 04/17/2025

## REASON FOR REVISION:

REMOVED DME FROM FIX TYPE.  
REMOVED FAC 1 CGT VORTAC FROM FIX MAKE-UP FACILITIES.  
REMOVED PAT 1 CGT VORTAC AND ITS ASSOCIATED CONTROLLING OBSTACLE AND NOTES.  
CHANGED FROM "HOLDING PATTERN 2 USED TEMPLATE 15 FOR 10 DME LEG LENGTH AT ATC REQUEST" TO "HOLDING PATTERN 1 USED TEMPLATE 15 FOR 10 DME LEG LENGTH AT ATC REQUEST" IN REMARKS.  
REMOVED STAR GOSHEN FOR KIGQ, KMDW, KGYG, 05C AND 3HO AIRPORTS FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SILVIA YOUNG

APPROVED BY:

DATE: 03/13/2025

OFFICE: AJV-A432

NAME: JOSEPH ZEDER

SIGNATURE:

*Digitally signed by*  
**CASIMIR L TABAKA**

Feb 13, 2025

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: MEGGZ

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413124.28N/0862344.65W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STAR

USE TITLE  
PANGG (RNAV)

FAC

PAT

AIRPORT IDENT  
KMDW

CITY  
CHICAGO

STATE  
IL (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 04/17/2025

REASON FOR REVISION:

REMOVED DME FROM FIX TYPE.

REMOVED FAC 1 GSH VORTAC FROM FIX MAKE-UP FACILITIES.

REMOVED STAR GOSHEN FOR KIGQ, KMDW, KGGY, 05C AND 3HO AIRPORTS FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SILVIA YOUNG

APPROVED BY:

DATE: 03/13/2025

OFFICE: AJV-A432

NAME: JOSEPH ZEDER

SIGNATURE:

*Digitally signed by*

**CASIMIR L TABAKA**

Feb 13, 2025

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: PEOTONE VORTAC STATE: IL COUNTRY: US ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 411610.68N/0874727.79W

TYPE:

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	FEET	MRA	MAA
1	PEOTONE	EON	VORTAC	L							17500

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 ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	N	EON	VORTAC	001.00	181.00	R	1		2600	6000	4	5
2	N		WP	001.00	181.00	R		4	2600	6000	5	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (17-001091)	411804.00N/0874935.00W	1236	5D
2	200	TOWER (17-001091)	411804.00N/0874935.00W	1236	5D

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

PRECIPITIOUS TERRAIN EVALUATION COMPLETED.

FACILITY MAG VAR: 2E/YR 1965.

PAT 2 USED BY KMDW (4W/2015) AND KC56 (3W/2010). TRUE INBOUND COURSES ARE 1 DEGREE DIFFERENT BUT CONTROLLING OBSTACLE AND HOLDING ALTITUDES ARE THE SAME.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
SPECIAL IAP	ILS Z RWY 31C		1	KMDW	CHICAGO	IL (US)
DP	CICERO			KMDW	CHICAGO	IL (US)
DP	MIDWAY			KMDW	CHICAGO	IL (US)
DP	O'HARE			KORD	CHICAGO	IL (US)
DP	PAL-WAUKEE			KPWK	CHICAGO/PROSPECT HGTS/WHEELING	IL (US)
EN ROUTE	V156					(US)
EN ROUTE	V171					(US)
EN ROUTE	V173					(US)
EN ROUTE	V24					(US)
EN ROUTE	V38					(US)
EN ROUTE	V399					(US)
IAP	LOC RWY 36			KIGQ	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 36			KIGQ	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 9			KIGQ	CHICAGO	IL (US)
IAP	VOR-A			KIGQ	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 31C		1	KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 13C		1	KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 4R		1	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 13L		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 22R		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 31R		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 4L			KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) Z RWY 13C		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) Z RWY 22L		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) Z RWY 31C		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) Z RWY 4R		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (RNP) X RWY 22L		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (RNP) Y RWY 13C		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (RNP) Y RWY 22L		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (RNP) Y RWY 31C		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (RNP) Y RWY 4R		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 2			KLOT	CHICAGO/ROMEOVILLE	IL (US)
IAP	RNAV (GPS) RWY 16			KIKK	KANKAKEE	IL (US)
IAP	RNAV (GPS) RWY 22			KIKK	KANKAKEE	IL (US)
IAP	RNAV (GPS) RWY 34			KIKK	KANKAKEE	IL (US)
IAP	RNAV (GPS) RWY 27		2	C56	MONEE	IL (US)
IAP	RNAV (GPS) RWY 9		2	C56	MONEE	IL (US)
IAP	VOR-A			C09	MORRIS	IL (US)
IAP	COPTER ILS OR LOC RWY 30		1	KGYG	GARY/CHICAGO	IN (US)
IAP	ILS OR LOC RWY 30		1	KGYG	GARY/CHICAGO	IN (US)

REQUIRED CHARTING: DP, IAP, EN ROUTE LOW, SPECIAL IAP, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

QUALITY  
14  
CHECKED

RECORD REVISION NUMBER: 27

DATE OF REVISION: 04/17/2025

**REASON FOR REVISION:**

REMOVED STAR GOSHEN FOR KIGQ, KMDW, KGYG, 05C AND 3HO AIRPORTS FROM FIX USE.  
REMOVED STAR FROM REQUIRED CHARTING.

**INITIATED BY:****DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** SILVIA YOUNG**APPROVED BY:****DATE:** 03/13/2025**OFFICE:** AJV-A432**NAME:** JOSEPH ZEDER**SIGNATURE:***Digitally signed by***CASIMIR L TABAKA**

Feb 13, 2025

QUALITY  
14  
CHECKED