

# 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:** 22-AGL-20      **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 12
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

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-001350)	415251.00N/0861813.00W	1250	5D
1	310	TOWER (26-001350)	415251.00N/0861813.00W	1250	5D
2	200	TOWER (18-001917)	414435.00N/0863125.00W	1180	5D

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 9R	KSBN	SOUTH BEND	IN (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.  
 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 HEIGHTS/WHEELING	IL (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)
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 2			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 9			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	GOSHEN		3	KIGQ	CHICAGO	IL (US)
STAR	GOSHEN		3	KMDW	CHICAGO	IL (US)
STAR	KNOX			KORD	CHICAGO	IL (US)
STAR	GOSHEN		3	KGYG	GARY	IN (US)
STAR	GOSHEN		3	05C	GRIFFITH	IN (US)
STAR	GOSHEN		3	3HO	HOBART	IN (US)

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

**COMPULSORY REPORTING POINT: NO****RECORD REVISION NUMBER: 33****DATE OF REVISION: 04/20/2023****REASON FOR REVISION:**

1. ADDED AIRSPACE DOCKET 22-AGL-20.
2. DELETED MITCHELL DP AT KMKE IN FIX USE.
3. DELETED V6 AND V6-10 IN FIX USE.
4. DELETED HOLDING PATTERN 4 AND ASSOCIATED CONTROLLING OBSTRUCTION AND REMARK.
5. DELETED FISSK (RNAV) AT KMDW AND PANGG (RNAV) AT KMDW IN FIX USE.

11/10/22: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/31/22.

1. CHANGED HOLDING PATTERN 1 MAX TEMPLATE FROM "9" TO "12".
2. ADDED HOLDING PATTERN 1 310 KIAS CONTROLLING OBSTRUCTION TOWER (26-001350).
3. ADDED ILS OR LOC RWY 9R AT KSBN TO PROCEDURES REQUIRING CLIMB-IN-HOLD.

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

AJV-A421

**NAME:** DANIEL JOHNSEN**APPROVED BY:****DATE:** 04/20/2023**OFFICE:** AJV-A420**NAME:** MARLON ROBINSON**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: KNOX VOR/DME STATE: IN COUNTRY: US ICAO REGION CODE: K5  
 LATITUDE/LONGITUDE: 411919.41N/0863857.44W TYPE:

AIRSPACE DOCKET: FIX TYPE OF ACTION: CANCEL

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	KNOX	OXI	VOR/DME	H						45000

HOLDING: HOLDING TYPE OF ACTION: CANCEL

## 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	OXI	VOR/DME	117.00	297.00	L	1		3000	24000	4	19
2	SE		WP	141.08	321.08	R		4	2600	6000	5	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-000059)	411348.00N/0862851.00W	1046	4D
2	200	TOWER (18-000059)	411348.00N/0862851.00W	1046	4D

## REASON FOR NONSTANDARD HOLDING:

PAT 1 REMAIN CLEAR OF CHICAGO MIDWAY ARRIVALS USING GSH STAR (PAT 1)

## REMARKS:

CHART HOLDING PATTERN 2 ON L-28, H-5, H-10, AND KNOX STAR.  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 ASSIGNED FACILITY MAGVAR: E00/1975.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V-156					(US)
EN ROUTE	V-233					(US)
EN ROUTE	V-340					(US)
EN ROUTE	V-371					(US)
EN ROUTE	V-422					(US)
IAP	VOR-A			KMGC	MICHIGAN CITY	IN (US)
IAP	ILS RWY 27			KVPZ	VALPARAISO	IN (US)
IAP	RNAV (GPS) RWY 18		2	KVPZ	VALPARAISO	IN (US)
IAP	RNAV (GPS) RWY 27			KVPZ	VALPARAISO	IN (US)
STAR	GOSHEN			KMDW	CHICAGO	IL (US)
STAR	KNOX		1	KORD	CHICAGO	IL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13

DATE OF REVISION: 04/20/2023

## REASON FOR REVISION:

1. FIX USE: REMOVED KC65 VOR RWY 28, KC65 VOR RWY 10, KRWN VOR/DME-A, KSBK ILS OR LOC RWY 9R AND RNAV (GPS) RWY 09L.
2. FIX USE: UPDATED STAR KNOX PAT FROM 2 TO 1, KVPZ RNAV (GPS) RWY 18 FROM PAT 3 TO 2.
3. HOLDING: REMOVED HOLDING PATTERN 1, OXI, VOR/DME AND ALL ASSOCIATIONS.
4. REQUIRED CHARTING: ADDED STAR.
5. REASON FOR NON-STANDARD HOLDING: UPDATED FROM "PAT 1 REMAIN CLEAR OF CHICAGO MIDWAY ARRIVALS USING GSH STAR (PAT 2)" TO "PAT 1 REMAIN CLEAR OF CHICAGO MIDWAY ARRIVALS USING GSH STAR (PAT 1)"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: JUDITH TUTTLE

APPROVED BY:

DATE: 06/15/2023

OFFICE: AVJ-A423

NAME: ALLAN WILL

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: NOMES

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413121.81N/0863004.56W

TYPE: WP, DME

AIRSPACE DOCKET: 22-AGL-22

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	GOSHEN	GSH	VORTAC	H	269.76	269.76	21.33	21.33		2600	17500

## HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## 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 36			KEKM	ELKHART	IN (US)
IAP	RNAV (GPS) RWY 18			KOXI	KNOX	IN (US)
IAP	RNAV (GPS) RWY 20			KPPO	LA PORTE	IN (US)
IAP	RNAV (GPS) RWY 36			KSBN	SOUTH BEND	IN (US)
IAP	RNAV (GPS) RWY 9R			KSBN	SOUTH BEND	IN (US)
IAP	RNAV (GPS) RWY 27			KVPZ	VALPARAISO	IN (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 06/15/2023

## REASON FOR REVISION:

1. AIRSPACE DOCKET: ADDED 22-AGL-22.
2. REMOVED FIX TYPE: INT.
3. REMOVED FIX MAKE-UP FACILITY: KNOX (OXI).
4. REMOVED FIX USE: KVPZ ILS RWY 27, ENROUTE V158 AND V126
5. UPDATED REQUIRED CHARTING: CONTROLLER TO CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: BARBARA GORMAN

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

# 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: MODIFY

## 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 13C		1	KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 4R		1	KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC/DME RWY 31C		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 (ALT MA)		1	KGYG	GARY	IN (US)
IAP	ILS OR LOC RWY 30 (ALT MA)		1	KGYG	GARY	IN (US)
STAR	GOSHEN			KIGQ	CHICAGO	IL (US)
STAR	GOSHEN			KMDW	CHICAGO	IL (US)
STAR	MOTIF			KMDW	CHICAGO	IL (US)
STAR	GOSHEN			KGYG	GARY	IN (US)
STAR	MOTIF			KGYG	GARY	IN (US)

STAR  
STARGOSHEN  
GOSHEN05C  
3HOGRIFFITH  
HOBARTIN (US)  
IN (US)**REQUIRED CHARTING:** DP, STAR, IAP, EN ROUTE LOW, SPECIAL IAP, CONTROLLER LOW**COMPULSORY REPORTING POINT:** NO**RECORD REVISION NUMBER:** 23**DATE OF REVISION:** 04/20/2023**REASON FOR REVISION:**

1. REQUIRED CHARTING: ADDED CONTROLLER LOW.
2. FIX USE: CHANGED KGYG IAP TITLE FROM COPTER ILS RWY 30 (ALT MA) TO COPTER ILS OR LOC RWY 30 (ALT MA).

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

AJV-A412

**NAME:** MARK CIARLONE**APPROVED BY:****DATE:** 04/20/2023**OFFICE:** AJV-A410**NAME:** JULIE MORGAN**SIGNATURE:**