

# RADIO FIX AND HOLDING DATA RECORD

NAME: CLEFT

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 410451.95N/0860229.28W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 21-AGL-1

FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	GOSHEN	GSH	VORTAC	H	181.32	181.32	26.64	26.64		2600	17500
2	FORT WAYNE	FWA	VORTAC	H	285.25	279.25	39.23	39.23		2800	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

GOSHEN (FAC 1) AND FORT WAYNE (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T215					(US)
EN ROUTE	V38	1, 2				(US)
IAP	RNAV (GPS) RWY 9			KIWH	WABASH	IN (US)
IAP	RNAV (GPS) RWY 9			KASW	WARSAW	IN (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 04/20/2023

## REASON FOR REVISION:

1. CHANGED AIRSPACE DOCKET FROM 18-AGL-13 TO 21-AGL-1.
2. DELETED FAC 3 OXI IN FIX MAKE-UP FACILITIES.
3. DELETED V285 IN FIX USE.

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:

*Digitally signed by*  
**JASON KRETSCHMER**

Nov 01, 2022

QUALITY  
30  
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:** 21-AGL-1      **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	E	GSH	VORTAC	092.00	272.00	L	1	3000 29000	4 22
3	S	GSH	VORTAC	189.00	009.00	R	1	2500 14000	4 10
4	W	WP	WP	270.00	090.00	R		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	AAO	413221.00N/0855518.00W	1152	4E
3	200	TOWER (18-002450)	412658.17N/0860430.00W	1349	5D
4	200	TOWER (18-002450)	412658.17N/0860430.00W	1349	5D

**REASON FOR NONSTANDARD HOLDING:**

PAT 2 SEPARATION OF SBN TRAFFIC

**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	ILS OR LOC RWY 27		3	KEKM	ELKHART	IN (US)
IAP	RNAV (GPS) RWY 27			KEKM	ELKHART	IN (US)
IAP	RNAV (GPS) RWY 9			KEKM	ELKHART	IN (US)
IAP	VOR 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		4	KGSH	GOSHEN	IN (US)
IAP	RNAV (GPS) RWY 9		4	KGSH	GOSHEN	IN (US)
IAP	VOR RWY 9		1	KGSH	GOSHEN	IN (US)
IAP	VOR OR GPS-B		1	C03	NAPPANEE	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)
STAR	GOSHEN		2	KIGQ	CHICAGO	IL (US)
STAR	GOSHEN		2	KMDW	CHICAGO	IL (US)
STAR	GOSHEN		2	KGYY	GARY	IN (US)
STAR	GOSHEN		2	05C	GRIFFITH	IN (US)
STAR	GOSHEN		2	3HO	HOBART	IN (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 27

**DATE OF REVISION:** 04/20/2023

**REASON FOR REVISION:**



1. CHANGED PAT 1, PAT 3 AND PAT 4 CONTROLLING OBSTRUCTION ACCURACY CODE FROM "4D" TO "5D".
2. DELETED V285 IN FIX USE.

<b>INITIATED BY:</b>	<b>DATE:</b>	<b>ORGANIZATION:</b>	<b>NAME:</b>
<b>OFFICE OF PRIMARY RESPONSIBILITY:</b>		AJV-A421	<b>NAME:</b> DANIEL JOHNSEN
<b>APPROVED BY:</b>	<b>DATE:</b> 04/20/2023	<b>OFFICE:</b> AJV-A420	<b>NAME:</b> MARLON ROBINSON
<b>SIGNATURE:</b>	<i>Digitally signed by</i> <b>JASON KRETSCHMER</b> Nov 01, 2022		



# RADIO FIX AND HOLDING DATA RECORD

NAME: WATSN

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 411700.43N/0860207.21W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 21-AGL-1

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	KNOX	OXI	VOR/DME	H	094.56	094.56	27.86	27.86	2700	17500
2	GOSHEN	GSH	VORTAC	H	181.32	181.32		14.50	2600	17500
3	WEBSTER LAKE	OLK	VOR	L	278.32	275.32		24.44	2700	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	E	OXI	VOR/DME	094.56	274.56	L	1	3000 18000	5 17
2	E		WP	099.18	279.18	L	8	9000 31000	11 24

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-001332)	411412.20N/0855244.92W	1157	1A
2	230	TOWER (18-001021)	411122.44N/0854642.53W	1313	1A

## REASON FOR NONSTANDARD HOLDING:

PAT 1 PROVIDE SEPARATION FROM DEPARTURE ROUTE.  
PAT 2 ATC REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

KNOX (FAC 1) AND GOSHEN (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
WP HOLDING PAT 2 EVALUATED FOR 8 DME LEG LENGTH AT ATC REQUEST.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	Q62					(US)
EN ROUTE	V422	1, 2, 3				(US)
STAR	ESSPO (RNAV)		2	KORD	CHICAGO	IL (US)
STAR	KNOX		1	KORD	CHICAGO	IL (US)
STAR	WATSN (RNAV)		2	KORD	CHICAGO	IL (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 04/20/2023

## REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 21-AGL-1.
2. CHANGED PAT 1 LEG LENGTH FROM "1-1 1/2" TO "1".
3. CHANGED PAT 1 CONTROLLING OBSTRUCTION ELEVATION/ACCURACY CODE FROM "1175/5D" TO "1157/1A".
4. DELETED V285 IN FIX USE.
5. CHANGED "CONTROLLER" TO "CONTROLLER LOW" AND ADDED "CONTROLLER HIGH" IN REQUIRED CHARTING.

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:

Digitally signed by  
**JASON KRETSCHMER**  
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