

# RADIO FIX AND HOLDING DATA RECORD

NAME: GAREN

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 411727.73N/0850404.03W

TYPE: WP

AIRSPACE DOCKET: 24-AGL-10

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE  
IAP  
IAP

USE TITLE  
RNAV (GPS) RWY 13  
RNAV (GPS) RWY 28

FAC

PAT

AIRPORT IDENT  
KSMD  
C62

CITY  
FORT WAYNE  
KENDALLVILLE

STATE  
IN (US)  
IN (US)

REQUIRED CHARTING: SECTIONAL, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 06/12/2025

**REASON FOR REVISION:**

1. ADDED AIRSPACE DOCKET 24-AGL-10.
2. DELETED "INT, DME" IN FIX TYPE.
3. DELETED GSH AND FWA IN FIX MAKE-UP FACILITIES -- NO GROUND BASED USE.
4. DELETED GSH ESV.
5. DELETED "MRA V221 4500" IN FIX RESTRICTIONS.
6. DELETED REMARK "GOSHEN (FAC 1) AND FORT WAYNE (FAC 2) USED TO ESTABLISH FIX COORDINATES".
7. DELETED EN ROUTE V8 AND V221 IN FIX USE.
8. DELETED "EN ROUTE LOW, CONTROLLER LOW" IN REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Feb 14, 2025

QUALITY  
13  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: GRABI

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 411502.38N/0845422.07W

TYPE: WP, DME

AIRSPACE DOCKET: 24-AGL-10

FIX TYPE OF ACTION: MODIFY

## FIX MAKE-UP FACILITIES:

| FAC | NAME       | IDENT | TYPE   | CLASS | MAG BRG | TRUE BRG | DME   | DIST FROM FAC NM | MRA  | MAA   |
|-----|------------|-------|--------|-------|---------|----------|-------|------------------|------|-------|
| 1   | FORT WAYNE | FWA   | VORTAC | VH    | 044.04  | 038.04   | 20.71 | 20.71            | 3000 | 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 | MAX  | TEMPLATES MIN | MAX |
|-----|-----|-------|------|-------------|-------------|---------------|----------------|-----------------------|------|---------------|-----|
| 1   | E   |       | WP   | 072.21      | 252.21      | R             | 4              | 3000                  | 6000 | 5             | 6   |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 200      | TOWER (39-003505) | 411915.50N/0844311.80W | 1252      | 2C            |

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

| USE TYPE | USE TITLE         | FAC | PAT | AIRPORT IDENT | CITY       | STATE   |
|----------|-------------------|-----|-----|---------------|------------|---------|
| EN ROUTE | V11               | 1   |     |               |            | (US)    |
| IAP      | RNAV (GPS) RWY 23 |     |     | KFWA          | FORT WAYNE | IN (US) |
| IAP      | RNAV (GPS) RWY 23 |     | 1   | KSMD          | FORT WAYNE | IN (US) |

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 06/12/2025

## REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 24-AGL-10.
2. DELETED "INT" IN FIX TYPE.
3. DELETED GSH IN FIX MAKE-UP FACILITIES AND ASSOCIATED ESV.
4. FWA CLASS CHANGED FROM "H" TO "VH" IN FIX MAKE-UP FACILITIES.
5. DELETED "MRA V11 4500" IN FIX RESTRICTIONS.
6. DELETED REMARK "GOSHEN (FAC 1) AND FORT WAYNE (FAC 2) USED TO ESTABLISH FIX COORDINATES".
7. CHANGED PAT 1 RAD/CRS/BRG AND CRS INBOUND FROM "072.25/252.25" TO "072.21/252.21".
8. DELETED "(S)" FROM HOLDING PATTERN RESTRICTION.
9. DELETED FAC 2 FROM EN ROUTE V11 IN FIX USE.
10. DELETED EN ROUTE V8 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Feb 14, 2025

QUALITY  
13  
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: 24-AGL-10

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   | 117.00      | 297.00      | L             |                 | 8   | 7000                  | 31000 | 11            | 24  |
| 3   | E   |       | WP   | 093.18      | 273.18      | L             |                 | 8   | 2400                  | 6000  | 11            | 11  |
| 4   | 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   | 200      | TOWER (18-000847) | 413117.00N/0870126.00W | 1320      | 2C            |
| 4   | 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

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
HOLDING PATTERN 2 & 3 USED TEMPLATE 11 FOR 8 DME LEG LENGTH AT ATC REQUEST.  
HOLDING PATTERN 4 USED TEMPLATE 15 FOR 10 DME LEG LENGTH AT ATC REQUEST.

## FIX USE:

| USE TYPE | USE TITLE         | FAC | PAT | AIRPORT IDENT | CITY         | STATE (US) |
|----------|-------------------|-----|-----|---------------|--------------|------------|
| EN ROUTE | V92               | 1   |     |               |              |            |
| 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)      |     | 3   | KMDW          | CHICAGO      | IL (US)    |
| STAR     | ESSPO (RNAV)      |     | 2   | KORD          | CHICAGO      | IL (US)    |
| STAR     | VEECK (RNAV)      |     | 4   | KORD          | CHICAGO      | IL (US)    |
| STAR     | WATSN (RNAV)      |     | 2   | KORD          | CHICAGO      | IL (US)    |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 06/12/2025

## REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 24-AGL-10.
2. DELETED HOLDING PAT 2 -- USED FOR ROYKO STAR CANCELED IN REVISION 8.
3. DELETED HOLDING PAT 4 -- USED FOR GOSHEN STAR CANCELED IN REVISION 13.
4. RENUMBERED HOLDING PATTERN REMARKS.
5. DELETED EN ROUTE V8 IN FIX USE.
6. RENUMBERED HOLDING PATTERNS IN FIX USE: PANGG (RNAV) FROM "5" TO "3", ESSPO (RNAV) AND WATSN (RNAV) FROM "3" TO "2", VEECK (RNAV) FROM "6" TO "4".
7. CHANGED PAT 3 MAX TEMPLATE FROM "12" TO "11".
8. ADDED HOLDING RESTRICTION "HOLDING LIMITED TO ESTABLISHED PATTERNS".

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

QUALITY  
13  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: INKEN

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413113.55N/0864620.78W

TYPE: WP, DME

AIRSPACE DOCKET: 22-AGL-22

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   | GOSHEN | GSH   | VORTAC | H     | 269.76  | 269.76   | 33.55 | 33.55            | 2600 | 17500 |

## HOLDING:

## HOLDING TYPE OF ACTION:

## FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-----------|-----|-----|---------------|------|-------|
| EN ROUTE | V8        | 1   |     |               |      | (US)  |
| EN ROUTE | V92       | 1   |     |               |      | (US)  |

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 06/15/2023

## REASON FOR REVISION:

AIRSPACE DOCKET: ADDED 22-AGL-22.

FIX TYPE: DELETED INT, ADDED WP.

FIX MAKE-UP FACILITIES: DELETED FAC 2 (OXI); CHANGED FAC 1 (GSH) MAG BEARING FROM 270.00 TO 269.76, TRUE BRG FROM 270.00 TO 269.76, DME FROM 34.00 TO 33.55, MRA FROM 1500 TO 2600; ADDED DIST FROM FAC 33.55 NM.

HOLDING: CANCELLED.

FIX USE: ADDED V8, V92.

REQUIRED CHARTING: CHANGED FROM CONTROLLER TO CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: GREGORY LINDSEY

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Feb 14, 2025

QUALITY  
13  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: NOMES

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413121.81N/0863004.56W

TYPE: WP

AIRSPACE DOCKET: 24-AGL-10

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

| USE TYPE | USE TITLE         | FAC | PAT | AIRPORT IDENT | CITY       | STATE   |
|----------|-------------------|-----|-----|---------------|------------|---------|
| 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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 06/12/2025

## REASON FOR REVISION:

1. CHANGED AIRSPACE DOCKET FROM "22-AGL-22" TO "24-AGL-10".
2. DELETED "DME" IN FIX TYPE.
3. DELETED GSH IN FIX MAKE-UP FACILITIES -- GSH VOR MON.
4. DELETED ENROUTE V8 AND V92 IN FIX USE.
5. DELETED "IAP" IN REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Feb 14, 2025

QUALITY  
13  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: RABBT

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 412412.41N/0853125.66W

TYPE: WP, DME

AIRSPACE DOCKET: 24-AGL-10

FIX TYPE OF ACTION: MODIFY

## FIX MAKE-UP FACILITIES:

| FAC | NAME       | IDENT | TYPE   | CLASS | MAG<br>BRG | TRUE<br>BRG | DME   | DIST FROM<br>NM | FAC<br>FEET | MRA  | MAA   |
|-----|------------|-------|--------|-------|------------|-------------|-------|-----------------|-------------|------|-------|
| 1   | FORT WAYNE | FWA   | VORTAC | VH    | 335.25     | 329.25      | 29.65 | 29.65           |             | 2800 | 17500 |

## HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

| USE TYPE | USE TITLE         | FAC | PAT | AIRPORT IDENT | CITY         | STATE   |
|----------|-------------------|-----|-----|---------------|--------------|---------|
| EN ROUTE | V277              | 1   |     |               |              | (US)    |
| IAP      | RNAV (GPS) RWY 27 |     |     | KGSH          | GOSHEN       | IN (US) |
| IAP      | RNAV (GPS) RWY 10 |     |     | C62           | KENDALLVILLE | IN (US) |

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 06/12/2025

## REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET 24-AGL-10.
2. DELETED "INT" IN FIX TYPE.
3. FWA CLASS CHANGED FROM "H" TO "VH" IN FIX MAKE-UP FACILITIES.
4. DELETED GSH IN FIX MAKE-UP FACILITIES.
5. DELETED REMARK "FORT WAYNE (FAC 1) AND GOSHEN (FAC 2) USED TO ESTABLISH FIX COORDINATES".
6. DELETED FAC 2 FROM EN ROUTE V277 IN FIX USE.
7. DELETED EN ROUTE V8 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Feb 14, 2025

QUALITY  
13  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: TWERP

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 410907.38N/0843057.42W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 24-AGL-10

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   | FLAG CITY    | FBC   | VORTAC | L     | 291.13  | 289.13   | 36.46 | 36.46            |      | 2600 | 17500 |
| 2   | FORT WAYNE   | FWA   | VORTAC | VH    | 077.00  | 071.00   | 32.22 | 32.22            |      | 5000 | 17500 |
| 3   | WEBSTER LAKE | OLK   | VOR    | L     | 099.97  | 096.97   |       | 44.81            |      | 2700 | 17500 |

## EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| OLK       | VOR      | R-100          | 45       | 2700         | 17500        |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

FLAG CITY (FAC 1) AND FORT WAYNE (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
ATC REQUEST SECTIONAL CHARTING.

## FIX USE:

| USE TYPE | USE TITLE         | FAC  | PAT | AIRPORT IDENT | CITY       | STATE   |
|----------|-------------------|------|-----|---------------|------------|---------|
| EN ROUTE | V422              | 1, 3 |     |               |            | (US)    |
| IAP      | RNAV (GPS) RWY 31 |      |     | KSMD          | FORT WAYNE | IN (US) |
| IAP      | RNAV (GPS) RWY 9  |      |     | KOWX          | OTTAWA     | OH (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 06/12/2025

## REASON FOR REVISION:

1. CHANGED AIRSPACE DOCKET FROM "21-AGL-1" TO "24-AGL-10".
2. FWA CLASS CHANGED FROM "H" TO "VH" IN FIX MAKE-UP FACILITIES.
3. DELETED "MRA V8 5000" IN FIX RESTRICTIONS.
4. DELETED EN ROUTE V8 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Feb 14, 2025

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13  
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