

# RADIO FIX AND HOLDING DATA RECORD

NAME: CENEM

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 395448.59N/0825317.71W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY      | STATE   |
|----------|--------------|-----|-----|---------------|-----------|---------|
| STAR     | GAILL (RNAV) |     |     | KCMH          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV) |     |     | KLCK          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV) |     |     | KOSU          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV) |     |     | KTZR          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV) |     |     | KLHQ          | LANCASTER | OH (US) |
| STAR     | GAILL (RNAV) |     |     | KVTA          | NEWARK    | OH (US) |

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 06/22/2017

## REASON FOR REVISION:

1. UPDATED FIX USE: ADDED STAR GAILL (RNAV) KLCK, KOSU, KTZR, KLHQ, KVTA.

DEVELOPED BY:

DATE: 03/13/2017

OFFICE: AJV-5421

NAME: JAMES ROGERS

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

*Digitally signed by*

**STEVEN A VARGAS**

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZID

ATC FACILITY: CMH APP CON

OTHER:

Mar 21, 2017

QUALITY  
17  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: GAILL STATE: OH COUNTRY: US ICAO REGION CODE: K5  
 LATITUDE/LONGITUDE: 393527.94N/0832509.82W 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 | MRA FEET | MAA   |
|-----|----------|-------|--------|-------|---------|----------|-------|------------------|----------|-------|
| 1   | APPLETON | APE   | VORTAC | H     | 235.10  | 229.10   | 51.00 | 51.00            | 4000     | 17500 |

## EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| APE       | VORTAC   | R-235          | 51       | 4000         | 14500        |

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   | W   |       | WP   | 250.58      | 070.58      | L             | 8                   | 10000 17500               | 11 18             |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 230      | TOWER (39-001765) | 392551.00N/0834029.00W | 1487      | 5D            |

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

## 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 | V19               | 1   |     |               |           | (US)    |
| IAP      | RNAV (GPS) RWY 5L |     |     | KLCK          | COLUMBUS  | OH (US) |
| IAP      | RNAV (GPS) RWY 5R |     |     | KLCK          | COLUMBUS  | OH (US) |
| IAP      | RNAV (GPS) RWY 23 |     |     | KHOC          | HILLSBORO | OH (US) |
| STAR     | GAILL (RNAV)      |     | 1   | KCMH          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV)      |     | 1   | KLCK          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV)      |     | 1   | KOSU          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV)      |     | 1   | KTZR          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV)      |     | 1   | KLHQ          | LANCASTER | OH (US) |
| STAR     | GAILL (RNAV)      |     | 1   | KVTA          | NEWARK    | OH (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 06/22/2017

## REASON FOR REVISION:

1. UPDATED FIX USE: ADDED STAR GAILL (RNAV) KLCK, KOSU, KTZR, KLHQ, KVTA.

DEVELOPED BY: DATE: 03/13/2017 OFFICE: AJV-5421 NAME: JAMES ROGERS

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: JULIE MORGAN

SIGNATURE: Digitally signed by STEVEN A VARGAS

DISTRIBUTION: NFDC  
 FPO: CEN  
 ARTCC: ZID  
 ATC FACILITY: CVG APP CON, CMH APP CON  
 OTHER: Mar 21, 2017

QUALITY  
17  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: MOAKS STATE: OH COUNTRY: US ICAO REGION CODE: K5  
 LATITUDE/LONGITUDE: 391742.68N/0841145.31W 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 FEET | MAA   |
|-----|------------|-------|---------|-------|---------|----------|-------|------------------|----------|-------|
| 1   | CINCINNATI | CVG   | VORTAC  | L     | 058.59  | 054.59   | 29.00 | 29.00            | 3000     | 17500 |
| 2   | DAYTON     | DQN   | VOR/DME | L     | 168.78  | 167.78   |       | 44.23            | 3000     | 17500 |

## EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| DQN       | VOR/DME  | R-169          | 45       | 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 TIME | DME | HOLDING ALTITUDES MIN | MAX  | TEMPLATES MIN | MAX |
|-----|-----|-------|--------|-------------|-------------|---------------|-----------------|-----|-----------------------|------|---------------|-----|
| 1   | SW  | CVG   | VORTAC | 058.59      | 058.59      | R             | 1               |     | 3000                  | 6000 | 6             | 7   |
| 2   | SW  |       | WP     | 238.59      | 058.59      | R             |                 | 4   | 3000                  | 6000 | 5             | 6   |
| 3   | NE  | CVG   | VORTAC | 058.59      | 238.59      | R             | 1               |     | 4000                  | 6000 | 5             | 6   |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 200      | TOWER (39-002039) | 391424.00N/0840659.00W | 1390      | 5D            |
| 2   | 200      | TOWER (39-002039) | 391424.00N/0840659.00W | 1390      | 5D            |
| 3   | 200      | TOWER (39-002039) | 391424.00N/0840659.00W | 1390      | 5D            |

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 CINCINNATI (FAC 1) AND DAYTON (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

| USE TYPE | USE TITLE             | FAC  | PAT | AIRPORT IDENT | CITY       | STATE   |
|----------|-----------------------|------|-----|---------------|------------|---------|
| EN ROUTE | V5                    | 1, 2 |     |               |            | (US)    |
| IAP      | ILS OR LOC RWY 36R    | 1, 2 | 1   | KCVG          | COVINGTON  | KY (US) |
| IAP      | ILS RWY 36R           | 1, 2 | 1   | KCVG          | COVINGTON  | KY (US) |
| IAP      | ILS RWY 36R (CAT II)  | 1, 2 | 1   | KCVG          | COVINGTON  | KY (US) |
| IAP      | ILS RWY 36R (CAT III) | 1, 2 | 1   | KCVG          | COVINGTON  | KY (US) |
| IAP      | RNAV (GPS) Y RWY 36R  |      | 2   | KCVG          | COVINGTON  | KY (US) |
| IAP      | RNAV (RNP) Z RWY 36R  |      | 2   | KCVG          | COVINGTON  | KY (US) |
| IAP      | NDB RWY 6             | 1    |     | KISZ          | CINCINNATI | OH (US) |
| IAP      | ILS OR LOC RWY 21L    | 1    |     | KLUK          | CINCINNATI | OH (US) |
| IAP      | NDB RWY 25            | 1    |     | KLUK          | CINCINNATI | OH (US) |
| IAP      | RNAV (GPS) RWY 21L    |      |     | KLUK          | CINCINNATI | OH (US) |
| IAP      | RNAV (GPS) RWY 5      |      |     | KMWO          | MIDDLETOWN | OH (US) |
| IAP      | ILS OR LOC RWY 22R    | 1    | 1   | KILN          | WILMINGTON | OH (US) |
| IAP      | ILS RWY 22R           | 1, 2 | 3   | KILN          | WILMINGTON | OH (US) |
| IAP      | ILS RWY 22R (CAT II)  | 1, 2 | 3   | KILN          | WILMINGTON | OH (US) |
| IAP      | ILS RWY 22R (CAT III) | 1, 2 | 3   | KILN          | WILMINGTON | OH (US) |
| STAR     | GAILL (RNAV)          |      |     | KCMH          | COLUMBUS   | OH (US) |
| STAR     | GAILL (RNAV)          |      |     | KLCK          | COLUMBUS   | OH (US) |
| STAR     | GAILL (RNAV)          |      |     | KOSU          | COLUMBUS   | OH (US) |
| STAR     | GAILL (RNAV)          |      |     | KTZR          | COLUMBUS   | OH (US) |
| STAR     | GAILL (RNAV)          |      |     | KLHQ          | LANCASTER  | OH (US) |
| STAR     | GAILL (RNAV)          |      |     | KVTA          | NEWARK     | OH (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18 DATE OF REVISION: 06/22/2017

## REASON FOR REVISION:

1. UPDATED FIX USE: ADDED STAR GAILL (RNAV) KLCK, KOSU, KTZR, KLHQ, KVTA.

DEVELOPED BY: DATE: 03/13/2017 OFFICE: AJV-5421 NAME: JAMES ROGERS

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: JULIE MORGAN



**SIGNATURE:***Digitally signed by***STEVEN A VARGAS**

Mar 21, 2017

**DISTRIBUTION:****NFDC****FPO: CEN****ARTCC: ZID****ATC FACILITY: CVG APP CON, CMH APP CON****OTHER:**

QUALITY  
17  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: NUMDE

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 395254.12N/0822115.44W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

| USE TYPE | USE TITLE         | FAC | PAT | AIRPORT IDENT | CITY      | STATE   |
|----------|-------------------|-----|-----|---------------|-----------|---------|
| IAP      | RNAV (GPS) RWY 28 |     |     | KLHQ          | LANCASTER | OH (US) |
| STAR     | GAILL (RNAV)      |     |     | KCMH          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV)      |     |     | KLCK          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV)      |     |     | KOSU          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV)      |     |     | KTZR          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV)      |     |     | KLHQ          | LANCASTER | OH (US) |
| STAR     | GAILL (RNAV)      |     |     | KVTA          | NEWARK    | OH (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/22/2017

## REASON FOR REVISION:

1. UPDATED FIX USE: ADDED STAR GAILL (RNAV) KLCK, KOSU, KTZR, KLHQ, KVTA.

DEVELOPED BY:

DATE: 03/13/2017

OFFICE: AJV-5421

NAME: JAMES ROGERS

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

*Digitally signed by*

**STEVEN A VARGAS**

DISTRIBUTION:

NFDC  
FPO: CEN  
ARTCC: ZID  
ATC FACILITY: CMH APP CON  
OTHER:

Mar 21, 2017

QUALITY  
17  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** ST LOUIS VORTAC      **STATE:** MO      **COUNTRY:** US      **ICAO REGION CODE:** K3

**LATITUDE/LONGITUDE:** 385138.48N/0902856.52W      **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 | FAC FEET | MRA | MAA   |
|-----|----------|-------|--------|-------|---------|----------|-----|------------------|----------|-----|-------|
| 1   | ST LOUIS | STL   | VORTAC | H     |         |          |     |                  |          |     | 45000 |

**HOLDING:**      **HOLDING TYPE OF ACTION:** NO CHANGE

**HOLDING RESTRICTIONS:**

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 18000.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

| USE TYPE | USE TITLE         | FAC | PAT | AIRPORT IDENT | CITY             | STATE   |
|----------|-------------------|-----|-----|---------------|------------------|---------|
| DP       | CARDS             |     |     | KALN          | ALTON/ST LOUIS   | IL (US) |
| DP       | GATEWAY           |     |     | KALN          | ALTON/ST LOUIS   | IL (US) |
| DP       | LINDBERGH         |     |     | KALN          | ALTON/ST LOUIS   | IL (US) |
| DP       | OZARK             |     |     | KALN          | ALTON/ST LOUIS   | IL (US) |
| DP       | PLESS             |     |     | KALN          | ALTON/ST LOUIS   | IL (US) |
| DP       | CARDS             |     |     | KBLV          | BELLEVILLE       | IL (US) |
| DP       | GATEWAY           |     |     | KBLV          | BELLEVILLE       | IL (US) |
| DP       | LINDBERGH         |     |     | KBLV          | BELLEVILLE       | IL (US) |
| DP       | OZARK             |     |     | KBLV          | BELLEVILLE       | IL (US) |
| DP       | PLESS             |     |     | KBLV          | BELLEVILLE       | IL (US) |
| DP       | CARDS             |     |     | KCPS          | CAHOKIA/ST LOUIS | IL (US) |
| DP       | GATEWAY           |     |     | KCPS          | CAHOKIA/ST LOUIS | IL (US) |
| DP       | LINDBERGH         |     |     | KCPS          | CAHOKIA/ST LOUIS | IL (US) |
| DP       | OZARK             |     |     | KCPS          | CAHOKIA/ST LOUIS | IL (US) |
| DP       | PLESS             |     |     | KCPS          | CAHOKIA/ST LOUIS | IL (US) |
| DP       | ROCKY             |     |     | KEYE          | INDIANAPOLIS     | IN (US) |
| DP       | ROCKY             |     |     | KHFY          | INDIANAPOLIS     | IN (US) |
| DP       | ROCKY             |     |     | KIND          | INDIANAPOLIS     | IN (US) |
| DP       | ROCKY             |     |     | KMQJ          | INDIANAPOLIS     | IN (US) |
| DP       | ROCKY             |     |     | KTYQ          | INDIANAPOLIS     | IN (US) |
| DP       | ROCKY             |     |     | KUMP          | INDIANAPOLIS     | IN (US) |
| DP       | ROCKY             |     |     | KGEZ          | SHELBYVILLE      | IN (US) |
| DP       | LAKES             |     |     | KFLV          | FORT LEAVENWORTH | KS (US) |
| DP       | LAKES             |     |     | KIXD          | OLATHE           | KS (US) |
| DP       | LAKES             |     |     | KOJC          | OLATHE           | KS (US) |
| DP       | LAKES             |     |     | KMCI          | KANSAS CITY      | MO (US) |
| DP       | LAKES             |     |     | KMKC          | KANSAS CITY      | MO (US) |
| DP       | LAKES             |     |     | KLXT          | LEE'S SUMMIT     | MO (US) |
| DP       | LAKES             |     |     | KGPH          | MOSBY            | MO (US) |
| DP       | LAKES             |     |     | KSTJ          | ST JOSEPH        | MO (US) |
| DP       | CARDS             |     |     | KSTL          | ST LOUIS         | MO (US) |
| DP       | GATEWAY           |     |     | KSTL          | ST LOUIS         | MO (US) |
| DP       | LINDBERGH         |     |     | KSTL          | ST LOUIS         | MO (US) |
| DP       | OZARK             |     |     | KSTL          | ST LOUIS         | MO (US) |
| DP       | PLESS             |     |     | KSTL          | ST LOUIS         | MO (US) |
| DP       | CARDS             |     |     | KSUS          | ST LOUIS         | MO (US) |
| DP       | GATEWAY           |     |     | KSUS          | ST LOUIS         | MO (US) |
| DP       | LINDBERGH         |     |     | KSUS          | ST LOUIS         | MO (US) |
| DP       | OZARK             |     |     | KSUS          | ST LOUIS         | MO (US) |
| DP       | PLESS             |     |     | KSUS          | ST LOUIS         | MO (US) |
| DP       | NASHVILLE         |     |     | KBNA          | NASHVILLE        | TN (US) |
| EN ROUTE | J101              |     |     |               |                  | (US)    |
| EN ROUTE | J110              |     |     |               |                  | (US)    |
| EN ROUTE | J134              |     |     |               |                  | (US)    |
| EN ROUTE | J151              |     |     |               |                  | (US)    |
| EN ROUTE | J19               |     |     |               |                  | (US)    |
| EN ROUTE | J24               |     |     |               |                  | (US)    |
| EN ROUTE | J35               |     |     |               |                  | (US)    |
| EN ROUTE | J45               |     |     |               |                  | (US)    |
| EN ROUTE | J8                |     |     |               |                  | (US)    |
| EN ROUTE | Q19               |     |     |               |                  | (US)    |
| EN ROUTE | V125              |     |     |               |                  | (US)    |
| EN ROUTE | V14               |     |     |               |                  | (US)    |
| EN ROUTE | V335              |     |     |               |                  | (US)    |
| EN ROUTE | V4                |     |     |               |                  | (US)    |
| EN ROUTE | V52               |     |     |               |                  | (US)    |
| EN ROUTE | V580              |     |     |               |                  | (US)    |
| EN ROUTE | V582              |     |     |               |                  | (US)    |
| EN ROUTE | V9                |     |     |               |                  | (US)    |
| IAP      | ILS OR LOC RWY 29 |     |     | KALN          | ALTON/ST LOUIS   | IL (US) |
| IAP      | LOC BC RWY 11     |     |     | KALN          | ALTON/ST LOUIS   | IL (US) |
| IAP      | NDB RWY 17        |     |     | KALN          | ALTON/ST LOUIS   | IL (US) |



|      |                                   |      |                  |         |
|------|-----------------------------------|------|------------------|---------|
| IAP  | VOR-A                             | KALN | ALTON/ST LOUIS   | IL (US) |
| IAP  | VOR RWY 18                        | KSET | ST CHARLES       | MO (US) |
| IAP  | VOR-A                             | K1H0 | ST LOUIS         | MO (US) |
| IAP  | ILS OR LOC RWY 11 (CAT I/II/III)  | KSTL | ST LOUIS         | MO (US) |
| IAP  | ILS OR LOC RWY 12L (CAT I/II/III) | KSTL | ST LOUIS         | MO (US) |
| IAP  | ILS OR LOC RWY 12R                | KSTL | ST LOUIS         | MO (US) |
| IAP  | ILS OR LOC RWY 24                 | KSTL | ST LOUIS         | MO (US) |
| IAP  | ILS OR LOC RWY 29                 | KSTL | ST LOUIS         | MO (US) |
| IAP  | ILS OR LOC RWY 30L                | KSTL | ST LOUIS         | MO (US) |
| IAP  | ILS OR LOC RWY 30R (CAT I/II/III) | KSTL | ST LOUIS         | MO (US) |
| IAP  | ILS OR LOC RWY 6                  | KSTL | ST LOUIS         | MO (US) |
| IAP  | TACAN RWY 12R                     | KSTL | ST LOUIS         | MO (US) |
| IAP  | TACAN RWY 30L                     | KSTL | ST LOUIS         | MO (US) |
| IAP  | ILS OR LOC RWY 26L                | KSUS | ST LOUIS         | MO (US) |
| IAP  | ILS OR LOC RWY 8R                 | KSUS | ST LOUIS         | MO (US) |
| STAR | BUUDD (RNAV)                      | KBLV | BELLEVILLE       | IL (US) |
| STAR | BUUDD (RNAV)                      | KCPS | CAHOKIA/ST LOUIS | IL (US) |
| STAR | BRADFORD                          | KORD | CHICAGO          | IL (US) |
| STAR | SHAIN (RNAV)                      | KORD | CHICAGO          | IL (US) |
| STAR | TRTLL (RNAV)                      | KORD | CHICAGO          | IL (US) |
| STAR | QBALL                             | KSTL | ST LOUIS         | MO (US) |
| STAR | TRAKE                             | KSTL | ST LOUIS         | MO (US) |
| STAR | VANDALIA                          | KSTL | ST LOUIS         | MO (US) |
| STAR | BUUDD (RNAV)                      | KSUS | ST LOUIS         | MO (US) |
| STAR | GAILL (RNAV)                      | KCMH | COLUMBUS         | OH (US) |
| STAR | GAILL (RNAV)                      | KLCK | COLUMBUS         | OH (US) |
| STAR | GAILL (RNAV)                      | KOSU | COLUMBUS         | OH (US) |
| STAR | GAILL (RNAV)                      | KTZR | COLUMBUS         | OH (US) |
| STAR | GAILL (RNAV)                      | KLHQ | LANCASTER        | OH (US) |
| STAR | GAILL (RNAV)                      | KVTA | NEWARK           | OH (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 21

**DATE OF REVISION:** 06/22/2017

**REASON FOR REVISION:**

1. UPDATED FIX USE: ADDED STAR GAILL (RNAV) KLCK, KOSU, KTZR, KLHQ, KVTA.

**DEVELOPED BY:**                      **DATE:** 03/13/2017                      **OFFICE:** AJV-5421                      **NAME:** JAMES ROGERS

**APPROVED BY:**                      **DATE:**                      **OFFICE:** AJV-5420                      **NAME:** JULIE MORGAN

**SIGNATURE:**                      *Digitally signed by*  
**STEVEN A VARGAS**

**DISTRIBUTION:**      **NFDC**  
                             **FPO: CEN**  
                             **ARTCC: ZKC**  
                             **ATC FACILITY: STL APP CON**  
                             **OTHER:**

Mar 21, 2017

QUALITY  
17  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: WOLAN

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 394507.86N/0830914.27W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY      | STATE   |
|----------|--------------|-----|-----|---------------|-----------|---------|
| STAR     | GAILL (RNAV) |     |     | KCMH          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV) |     |     | KLCK          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV) |     |     | KOSU          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV) |     |     | KTZR          | COLUMBUS  | OH (US) |
| STAR     | GAILL (RNAV) |     |     | KLHQ          | LANCASTER | OH (US) |
| STAR     | GAILL (RNAV) |     |     | KVTA          | NEWARK    | OH (US) |

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 06/22/2017

## REASON FOR REVISION:

1. UPDATED FIX USE: ADDED STAR GAILL (RNAV) KLCK, KOSU, KTZR, KLHQ, KVTA.

DEVELOPED BY: DATE: 03/13/2017 OFFICE: AJV-5421 NAME: JAMES ROGERS

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: JULIE MORGAN

SIGNATURE: *Digitally signed by*

**STEVEN A VARGAS**

DISTRIBUTION: NFDC  
FPO: CEN  
ARTCC: ZID  
ATC FACILITY: CMH APP CON  
OTHER:

Mar 21, 2017

QUALITY  
17  
CHECKED