

# RADIO FIX AND HOLDING DATA RECORD

NAME: ACTOR STATE: CO COUNTRY: US ICAO REGION CODE: K2  
 LATITUDE/LONGITUDE: 394520.73N/1043123.20W TYPE: 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 | FAC FEET | MRA  | MAA   |
|-----|-----------|-------|--------|-------|---------|----------|------|------------------|----------|------|-------|
| 1   | FALCON    | FQF   | VORTAC | H     | 038.00  | 049.00   | 6.00 | 6.00             |          | 8000 | 17500 |
| 2   | MILE HIGH | DVV   | VORTAC | H     | 142.64  | 150.64   |      | 9.55             |          | 8000 | 17500 |

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

FALCON (FAC 1) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

| USE TYPE | USE TITLE | FAC  | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|-----------|------|-----|---------------|-----------------------|---------|
| STAR     | SAYGE     | 1, 2 |     | KBKF          | AURORA                | CO (US) |
| STAR     | SAYGE     | 1, 2 |     | KAPA          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1, 2 |     | KBJC          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1, 2 |     | KDEN          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1, 2 |     | KFTG          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1, 2 |     | KFNL          | FORT COLLINS/LOVELAND | CO (US) |
| STAR     | SAYGE     | 1, 2 |     | KGXY          | GREELEY               | CO (US) |

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 DATE OF REVISION: 09/13/2018

## REASON FOR REVISION:

ADDED SAYGE STAR TO KBKF, KAPA, KDEN, KFNL, KFTG, KGXY, AND KBJC IN FIX USE.

INITIATED BY: DATE: ORGANIZATION: NAME:  
 DEVELOPED BY: DATE: 06/11/2018 OFFICE: AJV-5400 NAME: LONNIE EVERHART (LOIS LEGAKO)  
 APPROVED BY: DATE: OFFICE: AJV-5400 NAME: LONNIE EVERHART

SIGNATURE: *Digitally signed by*  
**DONALD H LANIER**

DISTRIBUTION: NFDC  
 FPO: WST  
 ARTCC: ZDV  
 ATC FACILITY: DEN  
 OTHER:

Jul 20, 2018

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: AMWAY

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 403759.87N/1031100.95W

TYPE: 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 | FAC FEET | MRA   | MAA   |
|-----|----------|-------|---------|-------|---------|----------|--------|------------------|----------|-------|-------|
| 1   | FALCON   | FQF   | VORTAC  | H     | 038.00  | 049.00   | 87.00  | 87.00            |          | 17000 | 45000 |
| 2   | AKRON    | AKO   | VOR/DME | H     | 346.64  | 359.64   |        | 28.65            |          | 17000 | 45000 |
| 3   | GOODLAND | GLD   | VORTAC  | H     | 305.84  | 317.84   | 101.50 | 101.50           |          | 21000 | 45000 |

**EXPANDED SERVICE VOLUME (ESV):**

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| FQF       | VORTAC   | R-038          | 87       | 17000        | 45000        |
| GLD       | VORTAC   | R-306          | 102      | 21000        | 45000        |

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   | NE  | FQF   | VORTAC | 038.00      | 218.00      | R             | 1 1/2               | 21000 45000               | 20 31             |

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN

**REMARKS:**

FALCON (FAC 1) USED TO ESTABLISH FIX COORDINATES  
PRECIPITOUS TERRAIN EVALUATION COMPLETED

**FIX USE:**

| USE TYPE | USE TITLE | FAC     | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|-----------|---------|-----|---------------|-----------------------|---------|
| STAR     | SAYGE     | 1, 2, 3 | 1   | KBKF          | AURORA                | CO (US) |
| STAR     | SAYGE     | 1, 2, 3 | 1   | KAPA          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1, 2, 3 | 1   | KBJC          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1, 2, 3 | 1   | KDEN          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1, 2, 3 | 1   | KFTG          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1, 2, 3 | 1   | KFNL          | FORT COLLINS/LOVELAND | CO (US) |
| STAR     | SAYGE     | 1, 2, 3 | 1   | KGXY          | GREELEY               | CO (US) |

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 09/13/2018

**REASON FOR REVISION:**

UPDATED FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 06/07/2018

OFFICE: AJV-5400

NAME: LONNIE EVERHART (LOIS LEGAKO)

APPROVED BY:

DATE:

OFFICE: AJV-5400

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZDV  
ATC FACILITY:  
OTHER:

**DONALD H LANIER**

Jul 20, 2018

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: DUNNY

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 401521.33N/1034600.50W

TYPE: 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 NM | FAC FEET | MRA  | MAA   |
|-----|--------|-------|--------|-------|---------|----------|-------|--------------|----------|------|-------|
| 1   | FALCON | FQF   | VORTAC | H     | 038.00  | 049.00   | 51.99 | 51.99        |          | 8000 | 45000 |

## EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| FQF       | VORTAC   | R-038          | 52       | 8000         | 45000        |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

FALCON (FAC 1) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|-----------|-----|-----|---------------|-----------------------|---------|
| STAR     | SAYGE     | 1   |     | KBKF          | AURORA                | CO (US) |
| STAR     | SAYGE     | 1   |     | KAPA          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1   |     | KBJC          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1   |     | KDEN          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1   |     | KFTG          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1   |     | KFNL          | FORT COLLINS/LOVELAND | CO (US) |
| STAR     | SAYGE     | 1   |     | KGXY          | GREELEY               | CO (US) |

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 09/13/2018

## REASON FOR REVISION:

ADDED SAYGE STAR TO KBKF, KAPA, KFNL, KFTG, KGXY, AND KBJC IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 06/07/2018

OFFICE: AJV-5400

NAME: LONNIE EVERHART (LOIS LEGAKO)

APPROVED BY:

DATE:

OFFICE: AJV-5400

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*  
**DONALD H LANIER**

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZDV  
ATC FACILITY: DEN ATCT  
OTHER:

Jul 20, 2018

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: HAYES CENTER VORTAC STATE: NE COUNTRY: US ICAO REGION CODE: K3  
 LATITUDE/LONGITUDE: 402714.62N/1005524.86W 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 | MRA FEET | MAA   |
|-----|--------------|-------|--------|-------|---------|----------|-----|------------------|----------|-------|
| 1   | HAYES CENTER | HCT   | VORTAC | H     |         |          |     |                  |          | 45000 |

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   | NW  | HCT   | VORTAC | 306.67      | 126.67      | R             | 1                   | 5000 6000                 | 5 5               |
| 2   | E   | HCT   | VORTAC | 069.00      | 249.00      | L             | 1 1/2               | 18000 45000               | 16 29             |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 200      | AAO               | 403427.00N/1010509.00W | 3399      | 4E            |
| UPN | 230      | TOWER (31-000104) | 403733.00N/1010147.00W | 3851      | 4D            |

## REASON FOR NONSTANDARD HOLDING:

PAT 2 REQUESTED BY ZDV.

## HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 6000.  
 HOLDING PATTERN 2 TO BE CHARTED ON ENROUTE HIGH AND CONTROLLER CHARTS.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

| USE TYPE | USE TITLE             | FAC | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|-----------------------|-----|-----|---------------|-----------------------|---------|
| DP       | DENVER                |     |     | KBKF          | AURORA                | CO (US) |
| DP       | PLAINS                |     |     | KBKF          | AURORA                | CO (US) |
| DP       | DENVER                |     |     | KAPA          | DENVER                | CO (US) |
| DP       | PLAINS                |     |     | KAPA          | DENVER                | CO (US) |
| DP       | DENVER                |     |     | KBJC          | DENVER                | CO (US) |
| DP       | PLAINS                |     |     | KBJC          | DENVER                | CO (US) |
| DP       | DENVER                |     |     | KDEN          | DENVER                | CO (US) |
| DP       | PLAINS                |     |     | KDEN          | DENVER                | CO (US) |
| DP       | DENVER                |     |     | KFTG          | DENVER                | CO (US) |
| DP       | PLAINS                |     |     | KFTG          | DENVER                | CO (US) |
| DP       | DENVER                |     |     | KFNL          | FORT COLLINS/LOVELAND | CO (US) |
| DP       | PLAINS                |     |     | KFNL          | FORT COLLINS/LOVELAND | CO (US) |
| DP       | DENVER                |     |     | KGXY          | GREELEY               | CO (US) |
| DP       | PLAINS                |     |     | KGXY          | GREELEY               | CO (US) |
| EN ROUTE | J128                  |     |     |               |                       | (US)    |
| EN ROUTE | J60                   |     | 2   |               |                       | (US)    |
| EN ROUTE | V148                  |     |     |               |                       | (US)    |
| EN ROUTE | V219                  |     |     |               |                       | (US)    |
| EN ROUTE | V8                    |     |     |               |                       | (US)    |
| IAP      | VOR RWY 13            |     |     | KCZD          | COZAD                 | NE (US) |
| IAP      | RNAV (GPS) RWY 03     |     |     | KGTE          | GOTHENBURG            | NE (US) |
| IAP      | VOR-A                 |     |     | KGTE          | GOTHENBURG            | NE (US) |
| IAP      | ILS OR LOC/DME RWY 12 |     | 1   | KMCK          | MCCOOK                | NE (US) |
| IAP      | RNAV (GPS) RWY 12     |     |     | KMCK          | MCCOOK                | NE (US) |
| STAR     | SAYGE                 |     |     | KBKF          | AURORA                | CO (US) |
| STAR     | SAYGE                 |     |     | KAPA          | DENVER                | CO (US) |
| STAR     | SAYGE                 |     |     | KBJC          | DENVER                | CO (US) |
| STAR     | SAYGE                 |     |     | KDEN          | DENVER                | CO (US) |
| STAR     | SAYGE                 |     |     | KFTG          | DENVER                | CO (US) |
| STAR     | SAYGE                 |     |     | KFNL          | FORT COLLINS/LOVELAND | CO (US) |
| STAR     | SAYGE                 |     |     | KGXY          | GREELEY               | CO (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 09/13/2018

## REASON FOR REVISION:

1. ADDED SAYGE STAR TO KBKF, KAPA, KFNL, KFTG, KGXY, AND KBJC IN FIX USE.
2. DELETED STAR LANDR FROM FIX USE.



|               |   |  |                                     |
|---------------|---|--|-------------------------------------|
| INITIATED BY: | DATE:   | ORGANIZATION:  | NAME:                               |
| DEVELOPED BY: | DATE: 06/07/2018  | OFFICE: AJV-5400                                     | NAME: LONNIE EVERHART (LOIS LEGAKO) |
| APPROVED BY:  | DATE:   | OFFICE: AJV-5400                                     | NAME: LONNIE EVERHART               |
|               | SIGNATURE:  | <i>Digitally signed by</i><br><b>DONALD H LANIER</b> |                                     |
| DISTRIBUTION: | NFDC<br>FPO: CEN<br>ARTCC: ZDV<br>ATC FACILITY:<br>OTHER: | Jul 20, 2018   |                                     |

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** KATLN **STATE:** NE **COUNTRY:** US **ICAO REGION CODE:** K3

**LATITUDE/LONGITUDE:** 405638.63N/1012334.51W **TYPE:** 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 NM | FAC FEET | MRA   | MAA   |
|-----|--------------|-------|---------|-------|---------|----------|-------|--------------|----------|-------|-------|
| 1   | NORTH PLATTE | LBF   | VOR/DME | L     | 247.14  | 258.14   | 30.00 | 30.00        |          | 21000 | 45000 |

**EXPANDED SERVICE VOLUME (ESV):**

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| LBF       | VOR/DME  | R-247          | 30       | 21000        | 45000        |

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

**PATTERNS:**

| PAT | DIR | IDENT | TYPE    | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG LENGTH TIME | HOLDING ALTITUDES DME | MIN   | MAX   | TEMPLATES MIN | MAX |
|-----|-----|-------|---------|-------------|-------------|---------------|-----------------|-----------------------|-------|-------|---------------|-----|
| 1   | NE  | LBF   | VOR/DME | 067.14      | 247.14      | R             | 1 1/2           |                       | 21000 | 45000 | 20            | 31  |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 265      | TOWER (31-000219) | 410122.00N/1010916.00W | 4293      | 4D            |

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|-----------|-----|-----|---------------|-----------------------|---------|
| STAR     | SAYGE     | 1   | 1   | KBKF          | AURORA                | CO (US) |
| STAR     | SAYGE     | 1   | 1   | KAPA          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1   | 1   | KBJC          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1   | 1   | KDEN          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1   | 1   | KFTG          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1   | 1   | KFNL          | FORT COLLINS/LOVELAND | CO (US) |
| STAR     | SAYGE     | 1   | 1   | KGXY          | GREELEY               | CO (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2 **DATE OF REVISION:** 09/13/2018

**REASON FOR REVISION:**

UPDATED FIX USE.

|                      |                         |                         |  |
|----------------------|-------------------------|-------------------------|--|
| <b>INITIATED BY:</b> | <b>DATE:</b>            | <b>ORGANIZATION:</b>    | <b>NAME:</b>                               |
| <b>DEVELOPED BY:</b> | <b>DATE:</b> 06/11/2018 | <b>OFFICE:</b> AJV-5400 | <b>NAME:</b> LONNIE EVERHART (LOIS LEGAKO) |
| <b>APPROVED BY:</b>  | <b>DATE:</b>            | <b>OFFICE:</b> AJV-5400 | <b>NAME:</b> LONNIE EVERHART               |

**SIGNATURE:**

*Digitally signed by*

**DONALD H LANIER**

Jul 20, 2018

**DISTRIBUTION:**

NFDC  
FPO: WST  
ARTCC: ZDV  
ATC FACILITY:  
OTHER:

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: SAYGE STATE: CO COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 401202.15N/1035104.99W 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   | FALCON | FQF   | VORTAC  | H     | 038.00  | 049.00   | 46.88 | 46.88            | 8000 | 45000 |
| 2   | AKRON  | AKO   | VOR/DME | H     | 262.21  | 275.21   |       | 31.01            | 8000 | 45000 |

## EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| FQF       | VORTAC   | R-038          | 47       | 8000         | 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   | NE  | FQF   | VORTAC | 038.00      | 218.00      | R             | 1               |     | 8000                  | 45000 | 10            | 31  |

## REMARKS:

FALCON (FAC 1) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

| USE TYPE | USE TITLE    | FAC  | PAT | AIRPORT IDENT | CITY                  | STATE (US) |
|----------|--------------|------|-----|---------------|-----------------------|------------|
| EN ROUTE | V-160        | 1, 2 |     |               |                       | CO (US)    |
| STAR     | SAYGE        | 1, 2 | 1   | KBKF          | AURORA                | CO (US)    |
| STAR     | PUFFR (RNAV) |      |     | KAPA          | DENVER                | CO (US)    |
| STAR     | SAYGE        | 1, 2 | 1   | KAPA          | DENVER                | CO (US)    |
| STAR     | SAYGE        | 1, 2 | 1   | KBJC          | DENVER                | CO (US)    |
| STAR     | KOHOE (RNAV) |      |     | KDEN          | DENVER                | CO (US)    |
| STAR     | SAYGE        | 1, 2 | 1   | KDEN          | DENVER                | CO (US)    |
| STAR     | WAHUU (RNAV) |      |     | KDEN          | DENVER                | CO (US)    |
| STAR     | SAYGE        | 1, 2 | 1   | KFTG          | DENVER                | CO (US)    |
| STAR     | SAYGE        | 1, 2 | 1   | KFNL          | FORT COLLINS/LOVELAND | CO (US)    |
| STAR     | SAYGE        | 1, 2 | 1   | KGXY          | GREELEY               | CO (US)    |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 DATE OF REVISION: 09/13/2018

## REASON FOR REVISION:

1. CHANGED LEG TIME FROM 1-1 1/2 TO 1 FOR PAT 1 IN HOLDING.
2. UPDATED FIX USE.

|               |   |  |                                     |
|---------------|---|--|-------------------------------------|
| INITIATED BY: | DATE:   | ORGANIZATION:  | NAME:                               |
| DEVELOPED BY: | DATE: 06/07/2018  | OFFICE: AJV-5400                                     | NAME: LONNIE EVERHART (LOIS LEGAKO) |
| APPROVED BY:  | DATE:   | OFFICE: AJV-5400                                     | NAME: LONNIE EVERHART               |
|               | SIGNATURE:  | <i>Digitally signed by</i><br><b>DONALD H LANIER</b> |                                     |
| DISTRIBUTION: | Jul 20, 2018  |  |                                     |
|               | NFDC<br>FPO: WST<br>ARTCC: ZDV<br>ATC FACILITY: DEN<br>OTHER: |  |                                     |

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: TATTR

STATE: NE

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 403244.91N/1020033.63W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

## 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   | HAYES CENTER | HCT   | VORTAC | H     | 265.67     | 276.67      | 50.00 | 50.00           |             | 21000 | 45000 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

HAYES CENTER (FAC 1) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|-----------|-----|-----|---------------|-----------------------|---------|
| STAR     | SAYGE     | 1   |     | KBKF          | AURORA                | CO (US) |
| STAR     | SAYGE     | 1   |     | KAPA          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1   |     | KBJC          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1   |     | KDEN          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1   |     | KFTG          | DENVER                | CO (US) |
| STAR     | SAYGE     | 1   |     | KFNL          | FORT COLLINS/LOVELAND | CO (US) |
| STAR     | SAYGE     | 1   |     | KGXY          | GREELEY               | CO (US) |

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 09/13/2018

## REASON FOR REVISION:

ADDED SAYGE STAR TO KBKF, KAPA, KFNL, KFTG, KGXY, AND KBJC IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 06/07/2018

OFFICE: AJV-5400

NAME: LONNIE EVERHART (LOIS LEGAKO)

APPROVED BY:

DATE:

OFFICE: AJV-5400

NAME: LONNIE EVERHART

SIGNATURE:

*Digitally signed by*

**DONALD H LANIER**

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZDV  
ATC FACILITY:  
OTHER:

Jul 20, 2018

QUALITY  
14  
CHECKED



# RADIO FIX AND HOLDING DATA RECORD

NAME: WITNE

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 395948.46N/1040939.44W

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 | FEET | MRA  | MAA   |
|-----|--------|-------|---------|-------|---------|----------|-------|------------------|------|------|-------|
| 1   | FALCON | FQF   | VORTAC  | H     | 038.00  | 049.00   | 28.11 | 28.11            |      | 8000 | 17500 |
| 2   | GILL   | GLL   | VOR/DME | H     | 136.23  | 149.23   |       | 35.34            |      | 7600 | 17500 |
| 3   | DENVER | DEN   | VOR/DME | H     | 056.26  | 064.26   | 25.58 | 25.58            |      | 8000 | 14000 |

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   | NE  | FQF   | VORTAC  | 038.00      | 218.00      | R             | 1               |     | 10000                 | 14000 | 11            | 12  |
| 2   | NE  | WP    | WP      | 038.29      | 218.29      | R             |                 | 7   | 10000                 | 14000 | 10            | 11  |
| 3   | NE  | DEN   | VOR/DME | 056.26      | 236.26      | R             | 1               |     | 10000                 | 14000 | 10            | 11  |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 230      | TOWER (08-020356) | 400201.21N/1035618.94W | 6044      | 5D            |
| 2   | 230      | TOWER (08-020356) | 400201.21N/1035618.94W | 6044      | 5D            |
| 3   | 230      | TOWER (08-020356) | 400201.21N/1035618.94W | 6044      | 5D            |
| UPN | 230      | TOWER (08-000971) | 395522.00N/1035820.00W | 6945      | 4D            |

## HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 8000.

## REMARKS:

FALCON (FAC 1) AND GILL (FAC 2) USED TO ESTABLISH FIX COORDINATES  
PRECIPTIOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

| USE TYPE | USE TITLE                    | FAC     | PAT  | AIRPORT IDENT | CITY                  | STATE   |
|----------|------------------------------|---------|------|---------------|-----------------------|---------|
| EN ROUTE | V160                         | 1, 2    |      |               |                       | (US)    |
| EN ROUTE | V611                         | 1, 2    |      |               |                       | (US)    |
| IAP      | ILS OR LOC RWY 35R           | 3       | 3    | KDEN          | DENVER                | CO (US) |
| IAP      | ILS OR LOC RWY 8             | 1, 2, 3 | 1, 3 | KDEN          | DENVER                | CO (US) |
| IAP      | ILS RWY 35R (CAT II/CAT III) | 3       | 3    | KDEN          | DENVER                | CO (US) |
| IAP      | ILS RWY 35R (SA CAT I)       | 3       | 3    | KDEN          | DENVER                | CO (US) |
| IAP      | RNAV (GPS) Y RWY 8           |         | 2    | KDEN          | DENVER                | CO (US) |
| IAP      | RNAV (RNP) Z RWY 8           |         | 2    | KDEN          | DENVER                | CO (US) |
| STAR     | SAYGE                        | 1, 2    |      | KBKF          | AURORA                | CO (US) |
| STAR     | SAYGE                        | 1, 2    |      | KAPA          | DENVER                | CO (US) |
| STAR     | SAYGE                        | 1, 2    |      | KBJC          | DENVER                | CO (US) |
| STAR     | SAYGE                        | 1, 2    |      | KDEN          | DENVER                | CO (US) |
| STAR     | SAYGE                        | 1, 2    |      | KFTG          | DENVER                | CO (US) |
| STAR     | SAYGE                        | 1, 2    |      | KFNL          | FORT COLLINS/LOVELAND | CO (US) |
| STAR     | SAYGE                        | 1, 2    |      | KGXY          | GREELEY               | CO (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 09/13/2018

## REASON FOR REVISION:

ADDED SAYGE STAR TO KBKF, KAPA, KDEN, KFNL, KFTG, KGXY, AND KBJC IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 06/11/2018

OFFICE: AJV-5400

NAME: LONNIE EVERHART (LOIS LEGAKO)

APPROVED BY:

DATE:

OFFICE: AJV-5400

NAME: LONNIE EVERHART

SIGNATURE:

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**DONALD H LANIER**

DISTRIBUTION:

NFDC  
FPO: WST  
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