US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

# RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

## TERMINAL ROUTES

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|---|---|---|---|
| HUT VOR/DME | CLOBE (FO) | 108.05 / 12.97 | 3600 |
| WAIVE | UCEKO (FB) | 214.80 / 7.41 | 3600 |
| UCEKO (IAF) | CLOBE (NOPT) (FB) | 222.45 / 6.50 | 3600 |
| MUGER (IAF) | CLOBE (NOPT) (FB) | 023.31 / 4.12 | 3600 |
| CLOBE (IF/IAF) | RIRYO (FB) | 312.39 / 6.99 | 3200 |
| RIRYO (FAF) | YINUG/1.60 NM TO RW31 (FB) | 312.33 / 3.56 | |
| (SEE FORM 8260-10) | | | |

## MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW31

CLIMB TO 3200 DIRECT ZENOS AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 132.17 INBOUND.
CHART FAS OBST: 1626 TREE 380406N/0975051W
DISTANCE TO THLD FROM 250 HATH: 0.65 NM.
WAAS CHANNEL # 53728
REFERENCE PATH ID: W31A
LTP HAE: 433.7 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD SE CLOBE, RT, 312.39 INBOUND, 3600 FT. IN LIEU OF PT (IAF)
3. FAC: 312.32 FAF: RIRYO DIST FAF TO MAP: 5.16 THLD: 5.16
4. MIN. ALT: CLOBE 3600, RIRYO 3200, YINUG/1.60 NM TO RW31 2060*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 3200 GS ALT AT: RIRYO 3200 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 41.9 34:1 IS NOT CLEAR
8. MSA FROM: RW31 4100

MAG VAR: 6E EPOCH YEAR: 2000

## MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: N A | STANDARD @

| CATEGORY =====> | A | | | B | | | C | | | D | | | E | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA |
| LPV DA | 1765 | 1 | 250 | 1765 | 1 | 250 | 1765 | 1 | 250 | | NA | | | | |
| LNAV/VNAV DA | 1796 | 1 | 281 | 1796 | 1 | 281 | 1796 | 1 | 281 | | NA | | | | |
| LNAV MDA | 1880 | 1 | 365 | 1880 | 1 | 365 | 1880 | 1 | 365 | | NA | | | | |
| | | | | | | | | | | | | | | | |
| CIRCLING | 2080 | 1 | 537 | 2080 | 1 | 537 | 2080 | 1 1/2 | 537 | | NA | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: BARO-VNAV NA WHEN USING NEWTON ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 54C (130F).
CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 31 PROCEDURE NA AT NIGHT.
CHART NOTE: DME/DME RNP-0.3 NA.
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED 5

| CITY AND STATE | ELEVATION: 1543 THRE: 1515 | FACILITY IDENTIFIER: | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| HUTCHINSON, KS | AIRPORT NAME: HUTCHINSON MUNI | RNAV | RNAV (GPS) RWY 31, AMDT 1 | AMDT: ORIG |
| | | | | DATED 11/20/2008 |

| ALL AFFECTED PROCEDURES REVIEWED? | COORDINATES OF FACILITIES | REQUIRED EFFECTIVE DATE |
|---|---|---|
| [ ] YES [X] NO | | **ROUTINE** |

COORDINATED WITH:

| ATA | AAT | ALPA | APA | AOPA | NBAA | OTHER (specify) |
|---|---|---|---|---|---|---|
| [ ] | [ ] | [X] | [ ] | [X] | [X] | [X] **ZKC, ICT ATCT, HUT ATCT, AMGR** |

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| **DEVELOPED BY** | | |
| NAME: **STEVEN M. BARNETT (DAVID DANNER)** | FIFO **AJV-353** | DATE: **12/29/2011** |
| **APPROVED BY** | | |
| NAME: **LARRY H STROUT** **MANAGER** | FIFO **AJV-353** | DATE: |

CHANGES:

**1. DELETED FEEDER FROM HUT VOR/DME TO IMAKE.**
**2. FAF NAME CHANGED FROM STORG TO RIRYO AND FAF RELOCATED.**
**3. IF/IAF NAME CHANGED FROM JAYUK TO CLOBE.**
**4. IFTUW RELOCATED AND NAME CHANGED TO UCEKO.**
**5. ADDED LPV AND LNAV/VNAV MINIMA AND ASSOCIATED NOTES.**
**6. FINAL COURSE CHANGED FROM 312.31 TO 312.32.**
**7. HIL ALTITUDE AND ALL INITIAL AND FEEDER ALTITUDES CHANGED FROM 3500 TO 3600.**
**8. LNAV MDA LOWERED FROM 1960 TO 1880 AND CAT C VISIBILITY LOWERED FROM 1 1/4 TO 1.**
**9. REMOVED VDA.**
**10. PLANVIEW NOTE FOR ARRIVALS AT HUT VOR/DME CHANGED FROM RADIALS 123 CW 144 TO RADIALS 016 CW 144.**
**11. ADDED STEPDOWN TO FINAL SEGMENT.**
**12. COURSE AND DISTANCE FROM HUT TO CLOBE (JAYUK) CHANGED FROM 106.18/12.11 TO 108.05/12.97.**
**13. COURSE AND DISTANCE FROM WAIVE TO UCEKO (IFTUW) CHANGED FROM 222.27/8.85 TO 214.80/7.41.**
**14. COURSE AND DISTANCE FROM UCEKO (IFTUW) TO CLOBE (JAYUK) CHANGED FROM 222.42/5.00 TO 222.45/6.50.**
**SEE 8260-10**

REASONS:

**1. DEGREE OF TURN MORE THAN 90.**
**2. STORG USED ON OTHER PROCEDURES; IAW 8260.54A.**
**3/4/5. FPT REQUEST.**
**6. FAF ALIGNMENT.**
**7. HIL OBS, COMMON ALTITUDE AT IF/IAF.**
**8. OBSTACLE EVALUATION.**
**9. VERTICALLY GUIDED PROCEDURE.**
**10. DO NOT NEED TO COVER REMOVED FEEDER TO IMAKE.**
**11. LOWER MDA.**
**12/13/14/15. RELOCATED FIXES TO MEET CURRENT CRITERIA AND DESIGN NEEDS.**
**16/17. FPT REQUEST.**
**18. INTERMEDIATE COURSE ALIGNMENT.**
**19. VISUAL PORTION OF FINAL PENETRATIONS.**

QUALITY CHECKED 5

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TERMINAL ROUTES, (CONT.):

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|---|---|---|---|
| YINUG/1.60 NM TO RW31 | RW31 (MAP) (FO) | 312.29 / 1.60 | |
| RW31 (MAP) | 1765 MSL | 312.29 | |
| 1765 MSL | ZENOS (FO) | | 3200 |

NOTES, (CONT.):
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WAIVE ON V532 NORTHBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON HUT VOR/DME AIRWAY RADIALS 016 CW 144.
*LNAV ONLY
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NEWTON ALTIMETER SETTING AND INCREASE LNAV/VNAV ALL CATS VISIBILITY 1/8 MILE, LNAV CAT C VISIBILITY 3/8 MILE, AND CIRCLING CAT C VISIBILITY 1/4 MILE.
CHART NOTE: WHEN VGSI INOP, CIRCLING TO RWY 17 AND 22 NA AT NIGHT.

QUALITY 5 CHECKED

| ALL AFFECTED PROCEDURES REVIEWED? | COORDINATES OF FACILITIES | REQUIRED EFFECTIVE DATE |
|---|---|---|
| ☐ YES ☐ NO | | |

COORDINATED WITH:

| ATA | AAT | ALPA | APA | AOPA | NBAA | OTHER (specify) |
|---|---|---|---|---|---|---|
| ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| **DEVELOPED BY** | | |
| NAME: | FIFO | DATE: |
| **APPROVED BY** | | |
| NAME: | FIFO | DATE: |

CHANGES:

**CHANGES CONT.**
**15. INTERMEDIATE COURSE AND DISTANCE CHANGED FROM 312.37/6.03 TO 312.39/6.99. 16. ADDED INITIAL FROM MUGER. 17. REMOVED INITIAL FROM IMAKE. 18. HIL COURSE CHANGED FROM 312.31 TO 312.39. 19. ADDED CHART NOTE: WHEN VGSI INOP, CIRCLING TO RWY 17 AND 22 NA AT NIGHT AND WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 31 PROCEDURE NA AT NIGHT.**

***PDF EDITS: ADDED (FAF) TO RIRYO IN TERMINAL ROUTES FROM COLUMN; REMOVED SDF ALTITUDE FROM TERMINAL ROUTES ALTITUDE COLUMN; MISSED APPROACH ALTITUDE CHANGED FROM 1765 TO 3200 IN TERMINAL ROUTES ALTITUDE COLUMN.**

REASONS:

QUALITY CHECKED

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## FAS DATA BLOCK INFORMATION

| DATA FIELD | DATA |
|---|---|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KHUT |
| RUNWAY | RW31 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W31A |
| LTP/FTP LATITUDE | 380335.4775N |
| LTP/FTP LONGITUDE | 0975117.6115W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +04337 |
| FPAP LATITUDE | 380442.0500N |
| FPAP LONGITUDE | 0975232.7100W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00041.9 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 0616 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| CRC REMAINDER | 57594947 |

## ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|---|---|
| ICAO CODE | K3 |
| LTP ORTHOMETRIC HEIGHT | +04617 |
| FPAP ORTHOMETRIC HEIGHT | +04617 |

QUALITY CHECKED 5

| CITY AND STATE | ELEVATION: 1543 THRE: 1515 | FACILITY IDENTIFIER: | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| HUTCHINSON, KS | AIRPORT NAME: HUTCHINSON MUNI | RNAV | RNAV (GPS) RWY 31, AMDT 1 | AMDT: ORIG |
| | | | | DATED: 11/20/2008 |

| ALL AFFECTED PROCEDURES REVIEWED? | COORDINATES OF FACILITIES | REQUIRED EFFECTIVE DATE |
|---|---|---|
| ☐ YES ☐ NO | | |

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| **DEVELOPED BY** | | |
| NAME: | FIFO | DATE: |
| **APPROVED BY** | | |
| NAME: | FIFO | DATE: |

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

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ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAD        HUT   K3011680VDLW N37594891W097560294    N37594891W097560294E0090015421     NARHUTCHINSON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CLOBE K30    W     N37543041W097410474                      E0044     NAR           CLOBE
        SUSAEAENRT   MUGER K30    C   L N37505464W097433767                      E0044     NAR           MUGER
        SUSAEAENRT   RIRYO K30    W     N37594406W097465697                      E0045     NAR           RIRYO
        SUSAEAENRT   UCEKO K30    W     N37584952W097345593                      E0043     NAR           UCEKO
        SUSAEAENRT   WAIVE K30    C   L N38042680W097284830                      E0043     NAR           WAIVE
        SUSAEAENRT   YINUG K30    W     N38022374W097495674                      E0045     NAR           YINUG
        SUSAEAENRT   ZENOS K30    W     N38124614W098014040                      E0046     NAR           ZENOS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHUTK3AHUT     0     070YHN38035580W097513830E006001543         1800018000C    MNAR    HUTCHINSON MUNI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHUTK3FR31   AHUT   010HUT  K3D 0V       IF                                                18000                A JS
        SUSAP KHUTK3FR31   AHUT   020CLOBEK3EA0EY   020TF                    10810130    + 03600                            A JS
        SUSAP KHUTK3FR31   AHUT   030CLOBEK3EA0EE AR   HF                    31240040    + 03600                            A JS
        SUSAP KHUTK3FR31   AMUGER 010MUGERK3EA0E  A    IF                                                18000                A JS
        SUSAP KHUTK3FR31   AMUGER 020CLOBEK3EA0EE B 010TF                    02330041    + 03600                            A JS
        SUSAP KHUTK3FR31   AWAIVE 010WAIVEK3EA0E       IF                                                18000                A JS
        SUSAP KHUTK3FR31   AWAIVE 020UCEKOK3EA0E  A 020TF                    21480074    + 03600                            A JS
        SUSAP KHUTK3FR31   AWAIVE 030CLOBEK3EA0EE B 010TF                    22250065    + 03600                            A JS
        SUSAP KHUTK3FR31   R      010CLOBEK3EA0E  I    IF                                + 03600     18000                  A JS
        SUSAP KHUTK3FR31   R      020RIRYOK3EA1E  F 051TF                    31240070    + 03200                  RW31  K3PGA JS
        SUSAP KHUTK3FR31   R      020RIRYOK3EA2WALPV       ALNAV/VNAV ALNAV                                                    JS
        SUSAP KHUTK3FR31   R      021YINUGK3EA0E S  031TF                    31230036    V 0206002066        -300          A JS
        SUSAP KHUTK3FR31   R      030RW31 K3PG0GY M 031TF                    31230016      01557             -300          A JS
        SUSAP KHUTK3FR31   R      040         0  M     CA                    3123        + 01765                            A JS
        SUSAP KHUTK3FR31   R      050ZENOSK3EA0EY      DF                                + 03200                            A JS
        SUSAP KHUTK3FR31   R      060ZENOSK3EA0EE  R   HM                    13220040    + 03200                            A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
```

| CITY AND STATE | ELEVATION: 1543 THRE: 1515 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| HUTCHINSON, KS | AIRPORT NAME: HUTCHINSON MUNI | RNAV | RNAV (GPS) RWY 31, AMDT 1 | AMDT: ORIG |
| | | | | DATED: 11/20/2008 |

| ALL AFFECTED PROCEDURES REVIEWED? | COORDINATES OF FACILITIES | REQUIRED EFFECTIVE DATE |
|---|---|---|
| ☐ YES ☐ NO | | |

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| **DEVELOPED BY** | | |
| NAME: | NFPG | DATE: |
| **APPROVED BY** | | |
| NAME: | NFPG | DATE: |

CHANGES:

REASONS:

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```
        SUSAP KHUTK3GRW31    0070043123 N38033548W097511761+0100    +0433701515000042100R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHUTK3PR31   RW31 001 0000W31A0N3803354775W09751176115+043370300N3804420500W097523271001067506160000419F40050057594947
        SUSAP KHUTK3PR31   RW31 002E      +04617+04617LPV       53728

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHUTK3SRW31 K3PG               0   18018004125                                                                          M
```

QUALITY CHECKED

| CITY AND STATE | ELEVATION: 1543 THRE: 1515 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| HUTCHINSON, KS | AIRPORT NAME: HUTCHINSON MUNI | RNAV | RNAV (GPS) RWY 31, AMDT 1 | AMDT: ORIG |
| | | | | DATED: 11/20/2008 |

| ALL AFFECTED PROCEDURES REVIEWED? | COORDINATES OF FACILITIES | REQUIRED EFFECTIVE DATE |
|---|---|---|
| ☐ YES ☐ NO | | |

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| **DEVELOPED BY** | | |
| NAME: | NFPG | DATE: |
| **APPROVED BY** | | |
| NAME: | NFPG | DATE: |

CHANGES:

REASONS:

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**

# RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG(TRUE) | DISTANCE | ALTITUDE | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HUT | HUT | 010 | | IF | | FB | | | | | |
| | HUT | CLOBE | 020 | | TF | | FO | 2.0 | 108.1(114.1T) | 013.0 | AA 03600 | |
| | HUT | CLOBE | 030 | IAF | HF | R | FO | | 312.4(318.4T) | 004.0 | AA 03600 | |
| | MUGER | MUGER | 010 | IAF | IF | | FB | | | | | |
| | MUGER | CLOBE | 020 | | TF | | FB | 1.0 | 023.3(029.3T) | 004.1 | AA 03600 | |
| | WAIVE | WAIVE | 010 | | IF | | FB | | | | | |
| | WAIVE | UCEKO | 020 | IAF | TF | | FB | 2.0 | 214.8(220.8T) | 007.4 | AA 03600 | |
| | WAIVE | CLOBE | 030 | | TF | | FB | 1.0 | 222.5(228.5T) | 006.5 | AA 03600 | |
| | | CLOBE | 010 | FACF | IF | | FB | | | | AA 03600 | |
| | | RIRYO | 020 | FAF | TF | | FB | 0.5 | 312.4(318.4T) | 007.0 | AA 03200 | |
| | | YINUG | 021 | SDF | TF | | FB | 0.3 | 312.3(318.3T) | 003.6 | AA 02060 GS 02066 | |
| | | RW31 | 030 | MAP | TF | | FO | 0.3 | 312.3(318.3T) | 001.6 | AT 01557 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG(TRUE) | DISTANCE | ALTITUDE | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 040 | | CA | | FB | | 312.3(318.3T) | | AA 01765 | |
| | ZENOS | 050 | | DF | | FO | | | | AA 03200 | |
| | ZENOS | 060 | | HM | R | FO | | 132.2(138.2T) | 004.0 | AA 03200 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|---|---|---|---|---|---|
| | HUT | N375948.91 | W0975602.94 | N3759.815 | W09756.049 |
| | CLOBE | N375430.41 | W0974104.74 | N3754.507 | W09741.079 |
| | MUGER | N375054.64 | W0974337.67 | N3750.911 | W09743.628 |
| | RIRYO | N375944.06 | W0974656.97 | N3759.734 | W09746.950 |
| | UCEKO | N375849.52 | W0973455.93 | N3758.825 | W09734.932 |
| | WAIVE | N380426.80 | W0972848.30 | N3804.447 | W09728.805 |
| | YINUG | N380223.74 | W0974956.74 | N3802.396 | W09749.946 |
| | ZENOS | N381246.14 | W0980140.40 | N3812.769 | W09801.673 |
| | RW31 | N380335.48 | W0975117.61 | N3803.591 | W09751.294 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|---|---|---|---|
| | RW31 | 01515 | 42 |

| CITY AND STATE | ELEVATION: 1543 THRE: 1515 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| HUTCHINSON, KS | AIRPORT NAME: HUTCHINSON MUNI | RNAV | RNAV (GPS) RWY 31, AMDT 1 | AMDT: ORIG |
| | | | | DATED: 11/20/2008 |

| ALL AFFECTED PROCEDURES REVIEWED? | COORDINATES OF FACILITIES | REQUIRED EFFECTIVE DATE |
|---|---|---|
| ☐ YES ☐ NO | | |

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| **DEVELOPED BY** | | |
| NAME: | NFPG | DATE: |
| **APPROVED BY** | | |
| NAME: | NFPG | DATE: |

CHANGES:

REASONS:

# STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

| 1. APP SEGMENT | FROM | TO | OBSTRUCTION | COORDINATES | ELEV. MSL | ROC | ALT. ADJUSTMENTS | MIN. ALT. |
|---|---|---|---|---|---|---|---|---|
| FEEDER | HUT VOR/DME | CLOBE | 1. TOWER (20-001733) | 375754.00N/0974926.00W | 1980 (5D) | 1000 | AT620 | 3600 |
| | | | 2. TERRAIN | 375718.00N/0975224.00W | 1565 (1600) | | AS1500 | 3100 |
| FEEDER | WAIVE | UCEKO | 3. TOWER (20-002342) | 380134.24N/0973348.28W | 1720 (2C) | 1000 | AT880 | 3600 |
| | | | 4. TERRAIN | 380542.00N/0973045.00W | 1460 (1500) | | AS1500 | 3000 |
| INITIAL | UCEKO | CLOBE | 5. AAO | 375836.00N/0974157.00W | 1667 (4E) | 1000 | AT933 | 3600 |
| | | | 6. TERRAIN | 375236.00N/0974112.00W | 1457 (1500) | | AS1500 | 3000 |
| INITIAL | MUGER | CLOBE | 7. TOWER (20-002262) | 375219.00N/0974105.00W | 1768 (5D) | 1000 | AT832 | 3600 |
| | | | 8. TERRAIN | 375145.00N/0974521.00W | 1549 (1500) | | AS1500 | 3000 |
| INTERMEDIATE | CLOBE (IF/IAF) | RIRYO | 9. AAO | 375306.00N/0974551.00W | 1700 (4E) | 500 | AC98 SA-2 AT904 | 3200 |
| | | | 10. TERRAIN | 375845.00N/0974751.00W | 1497 (1500) | | AS1500 | 3000 |
| INTERMEDIATE | CLOBE (IF/IAF) | RIRYO | 11. AAO | 375915.00N/0974718.00W | 1693 (4E) | 500 | AC98 AT909 | 3200 |
| | | | 10. TERRAIN | 375845.00N/0974751.00W | 1497 (1500) | | AT1500 | 3000 |
| FINAL: LPV | RIRYO | RW31 | 12. TREE (KHUTT0158) | 380335.31N/0975110.89W | 1568 (2C) | 34:1 | AC20 | 1765/250 |
| FINAL: LNAV/VNAV | RIRYO | RW31 | 13. TREE (KHUTT0147) | 380405.58N/0975051.08W | 1626 (2C) | 23.4:1 | AC20 | 1796/281 |
| 2. HOLD-IN-LIEU-OF-PT | CLOBE | P-5 | 15. TOWER (20-002127) | 374800.68N/0973130.21W | 2549 (2C) | 1000 | | 3600 |
| | | | 16. TERRAIN | 375136.00N/0974412.00W | 1533 (1500) | | AS1500 | 3000 |
| 3. MISSED APPROACH — MAP: | DA / DA / RW31 | ZENOS | | | | ASC | | 3200 |
| | | | 17. TOWER (20-001530) | 381302.00N/0975940.00W | 2041 (2C) | 1000 | | 3100 |
| ELEV: | 1578/1646/1780 | | 18. TERRAIN | 381000.00N/0975712.00W | 1733 (1700) | | AS1500 | 3200 |
| | | | 19. ELV (20-000916) (20- | 380343.00N/0975250.00W | 1771 (1B) | 300 | | 2080 |
| | | | 19. ELV (20-000916) (20- | 380343.00N/0975250.00W | 1771 (1B) | 300 | | 2080 |
| | | | 19. ELV (20-000916) (20- | 380343.00N/0975250.00W | 1771 (1B) | 300 | | 2080 |

| 4. CIRCLING AREA | DISTANCE | HT. ABV. ARPT. REQUIRED | HT. ABV. ARPT. ACTUAL |
|---|---|---|---|
| CATEGORY A | 1.3 NM | 350 | 537 |
| CATEGORY B | 1.5 NM | 450 | 537 |
| CATEGORY C | 1.7 NM | 450 | 537 |
| CATEGORY D | 2.3 NM | 550 | |
| CATEGORY E | 4.5 NM | 550 | |

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW31

| SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A | SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A |
|---|---|---|---|---|---|---|---|---|---|
| 360-360 | TWR (20-000032) | 083/ 04.3 | 3048 (2C) | 4100 | | | | | |

| CITY AND STATE | ELEVATION: 1543 / AIRPORT NAME: | FACILITY | PROCEDURE AND AMENDMENT NO: | REGION |
|---|---|---|---|---|
| HUTCHINSON, KS | HUTCHINSON MUNI | RNAV | RNAV (GPS) RWY 31, AMDT 1 | ACE |

## PART B - SUPPLEMENTAL DATA

| 1. COMMUNICATIONS WITH: | 2. WEATHER SERVICE | 3. ALTIMETER SETTING |
|---|---|---|
| HUT TOWER<br>ZKC ARTCC | N W S / F A A / A / C — OTHER: ASOS | SOURCE: KHUT / KEWK<br>DISTANCE: 0 / 27.74<br>HOURS REMOTE OPERATION: |
| SATISFACTORY ON: X VHF X UHF H F | LOCATION: KHUT | ADJUSTMENT: 0 / 66 |

| | | |
|---|---|---|
| 4. MONITOR STATUS | PRIMARY NAVAID: | |
| | MONITOR POINT: | |
| | HRS OPTN: CAT 1 | |
| | HRS OPTN: CAT 3 | |
| 5. APPROACH & RUNWAY LIGHTING | | ALS |
| | | (S) SALS |
| | X | MALSR 13 (PCL) |
| | X | HIRL 31, 13 |
| | X | MIRL 17, 22, 04, 35 |
| | X | REIL 31, 22, 04 |
| | | TDZ |
| | | C/LINE |
| | X | OTHER (SPECIFY)<br>PAPI-4L 17 (PCL), 35 (PCL) VASI-4L 31, 22 (PCL), 04 (PCL) |
| 6. RUNWAY MARKINGS | BASIC | BSC-G 17, 35 |
| | ALL WEATHER | PIR-G 31, 13 |
| | INSTRUMENT | NPI-G 22, 04 |
| 7. RUNWAY VISUAL RANGE | APPROACH | 13 |
| | MIDFIELD | |
| | ROLL OUT | |
| 8. GLIDE PATH | GP ANGLE: 3.00 | ELEV RWY THRESHOLD: 1514.8 |
| | DISTANCE FROM RWY: | ELEV GP ANTENNA: |
| | | THRESHOLD CROSSING HEIGHT: 41.9 |
| 9. FINAL APPROACH COURSE AIMING | X | RUNWAY THRESHOLD — FT. FROM THRESHOLD |
| | X | ON CENTERLINE — FT. FROM CENTERLINE |

10. WAIVERS: NONE

| | |
|---|---|
| PART D - PREPARED BY: STEVEN M. BARNETT (DAVID DANNER) | DATE: 12/29/2011 |
| TITLE: AERONAUTICAL INFORMATION SPECIALIST | OFFICE: AJV-353 |

## PART C - REMARKS:

ACTUAL HIGH TEMP: 85C (185F)

VDP NOT ESTABLISHED - 20:1 PENETRATIONS.

PARA 251, 20:1 PENETRATION.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RASS PRESSURE PATTERNS SAME
KHUT 1543, KEWK 1533
RA = 65.2.
SEE ATTACHED AIRSPACE LETTER.

5 YEAR TEMPERATURE DATA NOT AVAILABLE.
AVERAGE COLD TEMPERATURE BASED ON STANDARD -30C ISA DEVIATION.

OBS #9 LOCATED 26.67 FT INTO SECONDARY.

TERPS, VOLUME 1, PARAGRAPH 3.2.2D, VISUAL PORTION OF FINAL PENETRATIONS:
RWY 31 20:1:
1568 TREE (KHUTT0158) 380335.31N/0975110.89W (44.68)
1563 TREE (KHUTT0171) 380334.06N/0975109.51W (31.29)
1564 TREE (KHUTT0157) 380333.04N/0975109.32W (27.94)
1538 TREE (KHUTT0160) 380335.43N/0975113.40W (21.81)
1544 TREE (KHUTT0159) 380334.32N/0975111.51W (18.60)
1529 RD (N) (KHUTT0176) 380332.69N/0975117.80W (14.18)
1560 TREE (KHUTT0155) 380331.26N/0975107.96W (13.60)
1543 TREE (KHUTT0156) 380332.13N/0975109.82W (4.84)
1541 ANT (KHUTT0052) 380328.60N/0975115.03W (3.37)
1559 RD (N) (KHUTT0169) 380330.28N/0975115.94W (0.13)
RWY 31 34:1:
1549 TREE (KHUTT0153) 380329.40N/0975106.55W (9.28)
1546 TREE (KHUTT0170) 380330.32N/0975106.04W (7.52)
1560 TREE (KHUTT0167) 380328.73N/0975102.87W (13.03)
1551 TREE (KHUTT0165) 380328.85N/0975104.41W (6.71)
RWY 17:
1564 TREE (KHUT0074) 380420.20N/0975142.87W (11.24)
RWY 22:
1613 TREE (KHUT0019) 380423.06N/0975052.89W (32.88)
1572 TREE (KHUTT0068) 380416.56N/0975053.04W (16.53)
1580 TREE (KHUTT0069) 380418.54N/0975050.14W (9.32)
1621 TREE (KHUTT0070) 380423.58N/0975052.27W (37.26)
1595 TREE (KHUTT0071) 380419.92N/0975047.58W (12.27)
1612 TREE (KHUTT0072) 380421.63N/0975043.96W (13.12)
1623 TREE (KHUTT0074) 380427.90N/0975046.44W (7.42)
1621 TREE (KHUTT0075) 380425.88N/0975049.77W (21.94)
1548 GRD (KHUTT0122) 380415.50N/0975055.36W (2.74)
1548 GRD (KHUTT0123) 380417.58N/0975057.60W (1.03)

VGSI DATA: 3.00/41.9.

QUALITY CHECKED

# STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

| 1. APP SEGMENT | FROM | TO | OBSTRUCTION | COORDINATES | ELEV. MSL | ROC | ALT. ADJUSTMENTS | MIN. ALT. |
|---|---|---|---|---|---|---|---|---|
| **FINAL: LNAV** | **RIRYO** | **YINUG/1.60 NM TO** | **14. AAO** | **380122.85N/0974806.18W** | **1694 (2C)** | **250** | **RA66 DG50** | **2060** |
| | | **RW31** | | | | | | |
| **FINAL: LNAV STEPDOWN** | **YINUG/1.60 NM TO** | **RW31** | **13. TREE (KHUTT0147)** | **380405.58N/0975051.08W** | **1626 (2C)** | **250** | | **1880** |
| | **RW31** | | | | | | | |

| 3. MISSED APPROACH | |
|---|---|
| MAP: | |
| ELEV: | |

| 4. CIRCLING AREA | DISTANCE | HT. ABV. ARPT. REQUIRED | HT. ABV. ARPT. ACTUAL |
|---|---|---|---|
| CATEGORY A | 1.3 NM | 350 | |
| CATEGORY B | 1.5 NM | 450 | |
| CATEGORY C | 1.7 NM | 450 | |
| CATEGORY D | 2.3 NM | 550 | |
| CATEGORY E | 4.5 NM | 550 | |

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

| SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A | SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |

| CITY AND STATE | | FACILITY | PROCEDURE AND AMENDMENT NO: | REGION |
|---|---|---|---|---|
| **HUTCHINSON, KS** | **ELEVATION: 1543**<br>AIRPORT NAME:<br>**HUTCHINSON MUNI** | **RNAV** | **RNAV (GPS) RWY 31, AMDT 1** | **ACE** |

## PART B - SUPPLEMENTAL DATA

| 1. COMMUNICATIONS WITH: | 2. WEATHER SERVICE | | | 3. ALTIMETER SETTING |
|---|---|---|---|---|
| SATISFACTORY ON: | | N W S | OTHER: | SOURCE: |
| | | | | DISTANCE: |
| | | F A A | | HOURS REMOTE OPERATION: |
| | | A / C | | |
| V H F / U H F / H F | LOCATION: | | | ADJUSTMENT: |

| | | | |
|---|---|---|---|
| 4. MONITOR STATUS | PRIMARY NAVAID: | | |
| | MONITOR POINT: | | |
| | HRS OPTN: | CAT 1 | |
| | | CAT 3 | |

| | | |
|---|---|---|
| 5. APPROACH & RUNWAY LIGHTING | | **ALS** |
| | | **(S) SALS** |
| | | **MALS** |
| | | **HIRL** |
| | | **MIRL** |
| | | **REIL** |
| | | **TDZ** |
| | | **C/LINE** |
| | | **OTHER (SPECIFY)** |

| | | |
|---|---|---|
| 6. RUNWAY MARKINGS | BASIC | |
| | ALL WEATHER | |
| | INSTRUMENT | |
| 7. RUNWAY VISUAL RANGE | APPROACH | |
| | MIDFIELD | |
| | ROLL OUT | |
| 8. GLIDE PATH | GP ANGLE: | ELEV RWY THRESHOLD: |
| | DISTANCE FROM RWY: | ELEV GP ANTENNA: |
| | | THRESHOLD CROSSING HEIGHT: |

| | | | |
|---|---|---|---|
| 9. FINAL APPROACH COURSE AIMING | | RUNWAY THRESHOLD | FT. FROM THRESHOLD |
| | | ON CENTERLINE | FT. FROM CENTERLINE |

10. WAIVERS:

| | |
|---|---|
| PART D - PREPARED BY: | DATE: |
| TITLE: | OFFICE: |

PART C - REMARKS:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CLOBE **STATE:** KS **COUNTRY:** US

**LATITUDE/LONGITUDE:** 375430.41N/0974104.74W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** MODIFY

**HOLDING:** **HOLDING TYPE OF ACTION:** MODIFY

**PATTERNS:**

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG LENGTH TIME | LEG LENGTH DME | HOLDING ALTITUDES MIN | HOLDING ALTITUDES MAX | TEMPLATES MIN | TEMPLATES MAX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SE | | WP | 132.39 | 312.39 | R | | 4 | 3600 | 6000 | 5 | 6 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 200 | TOWER (20-002127) | 374800.68N/0973130.21W | 2549 | 2C |

**HOLDING RESTRICTIONS:**
HOLDING LIMITED TO ESTABLISHED PATTERN.

**REMARKS:**
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
FIX NAME CHANGED FROM JAYUK TO CLOBE; FPT REQUEST.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 13 | | 1 | KHUT | HUTCHINSON | KS (US) |
| IAP | RNAV (GPS) RWY 31 | | 1 | KHUT | HUTCHINSON | KS (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 3 **DATE OF REVISION:** 05/31/2012

**REASON FOR REVISION:**
ADDED PRECIPITOUS TERRAIN EVALUATION REMARK.
REMOVED FAC 1.
HOLDING COURSE CHANGED FROM 312.37 TO 312.39.
MIN HOLDING PATTERN ALTITUDE CHANGED FROM 3500 TO 3600.
REMOVED REMARK FOR HOLDING OBS 4004.21 FT INTO SECONDARY.
MOVED HOLDING LIMITED TO ESTABLISHED PATTERN FROM REMARKS TO HOLDING RESTRICTIONS.
UPDATED FIX COORDINATES; FIX MOVED 5817.40 FT SOUTHEAST.
UPDATED FIX USE FORMAT.

**DEVELOPED BY:** **DATE:** 12/30/2011 **OFFICE:** AJV-353 **NAME:** STEVEN BARNETT (DAVID DANNER)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** CEN
**ARTCC:** ZKC
**ATC FACILITY:** ICT ATCT, HUT ATCT
**OTHER:**

QUALITY 5 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** MUGER **STATE:** KS **COUNTRY:** US

**LATITUDE/LONGITUDE:** 375054.64N/0974337.67W **TYPE:** WP, INT, DME

**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 | DIST FROM FAC FEET | MRA | MAA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HUTCHINSON | HUT | VOR/DME | L | 123.08 | 132.08 | 13.26 | 13.26 | | 3600 | 17500 |
| 2 | ANTHONY | ANY | VORTAC | L | 020.00 | 027.00 | | 46.44 | | 3600 | 17500 |

**EXPANDED SERVICE VOLUME (ESV):**

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|---|---|---|---|---|---|
| ANY | VORTAC | R-020 | 47 | 3600 | 17500 |

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

**REMARKS:**
HUTCHINSON (FAC 1) AND ANTHONY (FAC 2) USED TO ESTABLISH FIX COORDINATES

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| EN ROUTE | V73 | 1, 2 | | | | (US) |
| IAP | RNAV (GPS) RWY 31 | | | KHUT | HUTCHINSON | KS (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 5 **DATE OF REVISION:** 05/31/2012

**REASON FOR REVISION:**
ADDED WP TO FIX TYPE.
FAC 1 DME CHANGED FROM 13.00 TO 13.26.
ADDED DISTANCE FROM FAC FOR FAC 1 AND 2.
FAC 2 TRUE BRG CHANGED FROM 026.70 TO 027.00.
REMOVED ESV: ANY R-017/47@3600 (NOT ON FILE).
ADDED ESV FOR ANY R-020/47/3600 TO 17500.
ADDED IAP TO CHARTING.
ADDED FACILITIES USED TO ESTABLISH FIX COORDINATES.
UPDATED FIX USE.
CHANGED FAC 1 MRA FROM 2500 TO 3600.

**DEVELOPED BY:** **DATE:** 12/29/2011 **OFFICE:** AJV-353 **NAME:** STEVEN BARNETT (DAVID DANNER)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** CEN
**ARTCC:** ZKC
**ATC FACILITY:** HUT ATCT
**OTHER:**

QUALITY 5 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** RIRYO **STATE:** KS **COUNTRY:** US

**LATITUDE/LONGITUDE:** 375944.06N/0974656.97W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** ESTABLISH

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 31 | | | KHUT | HUTCHINSON | KS (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG **DATE OF REVISION:** 05/31/2012

**DEVELOPED BY:** **DATE:** 12/30/2011 **OFFICE:** AJV-353 **NAME:** STEVEN BARNETT (DAVID DANNER)

**APPROVED BY:** **DATE:** **OFFICE:** **NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** CEN
**ARTCC:** ZKC
**ATC FACILITY:** HUT ATCT
**OTHER:**

QUALITY 5 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** UCEKO **STATE:** KS **COUNTRY:** US

**LATITUDE/LONGITUDE:** 375849.52N/0973455.93W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** ESTABLISH

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 31 | | | KHUT | HUTCHINSON | KS (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG **DATE OF REVISION:** 05/31/2012

**DEVELOPED BY:** **DATE:** 12/30/2011 **OFFICE:** AJV-353 **NAME:** STEVEN BARNETT (DAVID DANNER)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** CEN
**ARTCC:** ZKC
**ATC FACILITY:** HUT ATCT
**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** WAIVE **STATE:** KS **COUNTRY:** US

**LATITUDE/LONGITUDE:** 380426.80N/0972848.30W **TYPE:** WP, INT, DME

**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 | DIST FROM FAC FEET | MRA | MAA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HUTCHINSON | HUT | VOR/DME | L | 068.73 | 077.73 | 22.02 | 22.02 | | 4000 | 17500 |
| 2 | WICHITA | ICT | VORTAC | H | 007.00 | 014.00 | 20.32 | 20.32 | | 3600 | 17500 |

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

**REMARKS:**
HUTCHINSON (FAC 1) AND WICHITA (FAC 2) USED TO ESTABLISH FIX COORDINATES

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| EN ROUTE | V10 | 1, 2 | | | | (US) |
| EN ROUTE | V132 | 1, 2 | | | | (US) |
| EN ROUTE | V234 | 1, 2 | | | | (US) |
| EN ROUTE | V502 | 1, 2 | | | | (US) |
| EN ROUTE | V532 | 1, 2 | | | | (US) |
| IAP | RNAV (GPS) RWY 31 | | | KHUT | HUTCHINSON | KS (US) |
| IAP | NDB RWY 35 | 1, 2 | | KEWK | NEWTON | KS (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 11 **DATE OF REVISION:** 05/31/2012

**REASON FOR REVISION:**
FAC 2 DISTANCE CHANGED FROM 20.33 TO 20.32.
ADDED REMARK FOR FACILITIES USED TO ESTABLISH FIX COORDINATES.

**DEVELOPED BY:** **DATE:** 02/16/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (DAVID DANNER)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

**SIGNATURE:**

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

QUALITY 5 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** YINUG **STATE:** KS **COUNTRY:** US

**LATITUDE/LONGITUDE:** 380223.74N/0974956.74W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** ESTABLISH

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 31 | | | KHUT | HUTCHINSON | KS (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG **DATE OF REVISION:** 05/31/2012

**DEVELOPED BY:** **DATE:** 12/30/2011 **OFFICE:** AJV-353 **NAME:** STEVEN BARNETT (DAVID DANNER)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** CEN
**ARTCC:** ZKC
**ATC FACILITY:** HUT ATCT
**OTHER:**

QUALITY 5 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** ZENOS **STATE:** KS **COUNTRY:** US

**LATITUDE/LONGITUDE:** 381246.14N/0980140.40W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** MODIFY

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

**PATTERNS:**

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG LENGTH TIME | LEG LENGTH DME | HOLDING ALTITUDES MIN | HOLDING ALTITUDES MAX | TEMPLATES MIN | TEMPLATES MAX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NW | | WP | 312.17 | 132.17 | R | | 4 | 3200 | 6000 | 5 | 6 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 200 | TOWER (20-001530) | 381302.00N/0975940.00W | 2041 | 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 |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 13 | | 1 | KHUT | HUTCHINSON | KS (US) |
| IAP | RNAV (GPS) RWY 31 | | 1 | KHUT | HUTCHINSON | KS (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2 **DATE OF REVISION:** 05/31/2012

**REASON FOR REVISION:**
REMOVED FAC 1.
MOVED HOLDING LIMITED TO ESTABLISHED PATTERN FROM REMARKS TO HOLDING RESTRICTIONS.
UPDATED FIX USE FORMAT.
ADDED PRECIPITOUS TERRAIN REMARK.

**DEVELOPED BY:** **DATE:** 12/29/2011 **OFFICE:** AJV-353 **NAME:** STEVEN BARNETT (DAVID DANNER)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:** **NFDC**
**FPO:** CEN
**ARTCC:** ZKC
**ATC FACILITY:** ICT ATCT, HUT ATCT
**OTHER:**

QUALITY 5 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** HUTCHINSON VOR/DME **STATE:** KS **COUNTRY:** US

**LATITUDE/LONGITUDE:** 375948.91N/0975602.94W **TYPE:**

INFO ONLY

**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 | DIST FROM FAC FEET | MRA | MAA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HUTCHINSON | HUT | VOR/DME | L | | | | | | | 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 | LEG LENGTH DME | HOLDING ALTITUDES MIN | HOLDING ALTITUDES MAX | TEMPLATES MIN | TEMPLATES MAX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SW | HUT | VOR/DME | 213.00 | 033.00 | L | 1 | | 3100 | 14000 | 4 | 10 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 200 | TOWER (20-001318) | 375833.00N/0980401.00W | 2047 | 2C |

**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 | V10 | | | | | (US) |
| EN ROUTE | V132 | | | | | (US) |
| EN ROUTE | V234 | | | | | (US) |
| EN ROUTE | V256 | | | | | (US) |
| EN ROUTE | V280 | | | | | (US) |
| EN ROUTE | V502 | | | | | (US) |
| EN ROUTE | V73 | | | | | (US) |
| IAP | ILS OR LOC RWY 35 | | | KGBD | GREAT BEND | KS (US) |
| IAP | NDB RWY 35 | | | KGBD | GREAT BEND | KS (US) |
| IAP | ILS OR LOC RWY 13 | | 1 | KHUT | HUTCHINSON | KS (US) |
| IAP | LOC BC RWY 31 | | 1 | KHUT | HUTCHINSON | KS (US) |
| IAP | NDB RWY 13 | | 1 | KHUT | HUTCHINSON | KS (US) |
| IAP | RNAV (GPS) RWY 13 | | | KHUT | HUTCHINSON | KS (US) |
| IAP | RNAV (GPS) RWY 22 | | | KHUT | HUTCHINSON | KS (US) |
| IAP | RNAV (GPS) RWY 31 | | | KHUT | HUTCHINSON | KS (US) |
| IAP | RNAV (GPS) RWY 4 | | | KHUT | HUTCHINSON | KS (US) |
| IAP | VOR RWY 4 | | 1 | KHUT | HUTCHINSON | KS (US) |
| IAP | VOR/DME RWY 22 | | 1 | KHUT | HUTCHINSON | KS (US) |
| IAP | RNAV (GPS) RWY 18 | | | K9K8 | KINGMAN | KS (US) |
| IAP | RNAV (GPS) RWY 36 | | | K9K8 | KINGMAN | KS (US) |
| IAP | VOR/DME RWY 18 | | | K9K8 | KINGMAN | KS (US) |
| IAP | GPS RWY 17R | | | KLYO | LYONS | KS (US) |
| IAP | GPS RWY 35L | | | KLYO | LYONS | KS (US) |
| IAP | NDB RWY 17R | | | KLYO | LYONS | KS (US) |
| IAP | VOR/DME-A | | | KLYO | LYONS | KS (US) |
| IAP | NDB RWY 18 | | | KMPR | MCPHERSON | KS (US) |
| IAP | VOR/DME RWY 36 | | | KMPR | MCPHERSON | KS (US) |
| IAP | NDB RWY 17 | | | KPTT | PRATT | KS (US) |
| IAP | ILS OR LOC/DME RWY 18 | | | KAAO | WICHITA | KS (US) |
| IAP | RNAV (GPS) RWY 18 | | | KBEC | WICHITA | KS (US) |
| IAP | VOR/DME RNAV RWY 18 | | | KBEC | WICHITA | KS (US) |
| IAP | RNAV (RNP) Z RWY 14 | | | KICT | WICHITA | KS (US) |
| IAP | RNAV (RNP) Z RWY 19L | | | KICT | WICHITA | KS (US) |
| IAP | RNAV (RNP) Z RWY 19R | | | KICT | WICHITA | KS (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 12 **DATE OF REVISION:** 09/23/2010

**REASON FOR REVISION:**
REMOVED ESV INFORMATION
UPDATED FIX USE

QUALITY 5 CHECKED

| | | | |
|---|---|---|---|
| **DEVELOPED BY:** | **DATE:** 04/16/2010 | **OFFICE:** AVN-130 | **NAME:** RUSS ROSLEWSKI |
| **APPROVED BY:** | **DATE:** 07/07/2010 | **OFFICE:** AVN-130 | **NAME:** SUE CRUMB |
| | **SIGNATURE:** | | |

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

QUALITY 5 CHECKED

# TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **HUTCHINSON** STATE: **KS**

AIRPORT NAME: **HUTCHINSON MUNI** ID: **KHUT**

PROCEDURE: **RNAV (GPS) RWY 31** AMDT: **1**

DOCKET # :
(96-AXX-X/Required/Not Required)

**ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.**

1. Distance from **THLD** to 1000' point **2.96**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **318.32**
4. High Terrain in **FINAL** segment containing 1000' point **1494**
5. Distance from **THLD** to 1500' point **4.76**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.76**
7. True Course of **FINAL** segment containing 1500' point **318.32**
8. High Terrain in **FINAL** segment containing 1500' point **1494**
9. Threshold Coordinates (if straight-in) ... **380335.48N** / **0975117.61W**
10. ARP Coordinates ..... **380355.80N** / **0975138.30W**
11. Runway Approach End and distance furthest from ARP.....RWY **13**
    Distance **0.72** NM
12. FAF Coordinates ..... **375944.06N** / **0974656.97W**
    (Click to Select)

**REMARKS: Approach/Drawing attached.**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** IFTUW **STATE:** KS **COUNTRY:** US

**LATITUDE/LONGITUDE:** 375832.91N/0973709.24W **TYPE:** WP

CANCELLED

**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 | FEET | MRA | MAA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | JAYUK | | | | | 048.37 | 5.00 | | | | 17500 |

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

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | HUTCHINSON MUNI - RNAV (GPS) RWY 31 | | | KHUT | HUTCHINSON | KS (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2 **DATE OF REVISION:** 11/20/2008

**REASON FOR REVISION:**
AMENDED FIX MAKEUP/COORDINATES
MOVED FIX 6259 FT NW.

**DEVELOPED BY:** **DATE:** **OFFICE:** **NAME:**

**APPROVED BY:** **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** CEN
**ARTCC:** ZKC
**ATC FACILITY:** ICT ATCT, HUT ATCT
**OTHER:**

QUALITY CHECKED 5

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** IMAKE **STATE:** KS **COUNTRY:** US

**LATITUDE/LONGITUDE:** 375153.87N/0974636.00W **TYPE:** WP

CANCELLED

**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 | DIST FROM FAC FEET | MRA | MAA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | JAYUK | | | | | 228.37 | 5.00 | | | | 17500 |

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

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | HUTCHINSON MUNI - RNAV (GPS) RWY 31 | | | KHUT | HUTCHINSON | KS (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2 **DATE OF REVISION:** 11/20/2008

**REASON FOR REVISION:**
AMENDED FIX MAKEUP/COORDINATES
COMBINED WITH RNAV APPROACH.
CHANGED TRUE CRS FROM 228.36 TO 228.37.
MOVED FIX 6257 FT NW.

**DEVELOPED BY:** **DATE:** **OFFICE:** **NAME:**

**APPROVED BY:** **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** CEN
**ARTCC:** ZKC
**ATC FACILITY:** ICT ATCT, HUT ATCT
**OTHER:**

QUALITY 5 CHECKED