

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**

TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks 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 feet RVR.

| | | | | | | |
|----------------------------------|--|--|---|----------------------------|----------------------|---------------------------|
| <u>AIRPORT ID</u> 08K | <u>PROCEDURE NAME</u> RNAV (GPS) RWY 35 | <u>ORIGINAL/AMENDMENT</u> 1D | <u>CITY</u> HARVARD | <u>STATE</u> NE | | |
| <u>AIRPORT ELEVATION</u> 1815 | <u>TDZE</u> 1814 | <u>SUPERSEDED</u> RNAV (GPS) RWY 35 | <u>ORIGINAL/AMENDMENT</u> 1C | <u>DATED</u> 11/07/2019 | <u>MAG VAR</u> 5E | <u>EPOCH YEAR</u> 2010 |
| <u>FACILITY</u> RNAV | <u>COORDINATES OF FACILITIES</u> | <u>ACTUAL EFFECTIVE DATE</u> 25 FEBRUARY 2021 | <u>REQUIRED EFFECTIVE DATE</u> ROUTINE | <u>CANCEL/SUSPEND</u> | | |

TERMINAL ROUTES

| FROM | FIX TYPE | TO | FIX TYPE | LEG TYPE | FO/FB | RNP | COURSE | DISTANCE | ALTITUDE |
|-------------|----------|----------|----------|----------|-------|------|--------|----------|----------|
| SUEKI | | HULUN | | TF | FB | 1.00 | 267.77 | 17.02 | 4000 |
| NUCDI | | HULUN | | TF | FB | 1.00 | 211.86 | 21.17 | 4000 |
| HSI VOR/DME | | KUWUC | | TF | FB | 1.00 | 124.54 | 12.96 | 4000 |
| HULUN | IAF | CHALS | NOPT | TF | FB | 1.00 | 264.60 | 6.00 | 4000 |
| KUWUC | IAF | CHALS | NOPT | TF | FB | 1.00 | 084.42 | 6.00 | 4000 |
| CHALS | IF/IAF | PENEW | | TF | FB | 1.00 | 354.51 | 6.10 | 3300 |
| PENEW | FAF | RW35 | MAP | TF | FO | 0.30 | 354.51 | 4.56 | |
| RW35 | MAP | 2101 MSL | | CA | | | 354.51 | | |
| 2101 MSL | | ZIGIS | | DF | FO | 1.00 | | | 4100 |

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW35

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4100 DIRECT ZIGIS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



AIRPORT ID
08K

PROCEDURE NAME
RNAV (GPS) RWY 35

ORIGINAL/AMENDMENT
1D

CITY
HARVARD

STATE
NE

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. HOLD S CHALS, LT, 354.51 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 354.51 FAF: PENEW DIST FAF TO MAP: 4.56 DIST FAF TO THLD: 4.56

4. MIN ALT: CHALS 4000, PENEW 3300

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 287 HAT: 0.80 GS ANT:

6. MIN GP INCPT: 3300 GP ALT AT FAF: PENEW 3300 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 40.0

8. MSA FROM: RW35 4100

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: BARO-VNAV NA.
CHART NOTE: USE AURORA ALTIMETER SETTING; WHEN NOT RECEIVED, USE GRAND ISLAND ALTIMETER SETTING: INCREASE LPV DA TO 2119 FEET AND LNAV/VNAV DA TO 2311 FEET; INCREASE ALL MDAS 20 FEET.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT HSI VOR/DME ON AIRWAY RADIALS 037 CW 164.

ADDITIONAL FLIGHT DATA:

CHART AURORA AWOS-3
FAS OBST: 2029 AAO 403430.00N/0980554.00W
HOLD N, LT, 174.51 INBOUND.
WAAS CHANNEL # 86531
REFERENCE PATH ID: W35A
LTP HAE: 524.8 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA

| CATEGORY: | A | | | B | | | C | | | D | | | E | | |
|--------------|--------|-------|---------|--------|-------|---------|--------|-----|---------|--------|-----|---------|--------|-----|---------|
| | DA/MDA | VIS | HAT/HAA | DA/MDA | VIS | HAT/HAA | DA/MDA | VIS | HAT/HAA | DA/MDA | VIS | HAT/HAA | DA/MDA | VIS | HAT/HAA |
| LPV DA | 2101 | 1 | 287 | 2101 | 1 | 287 | | NA | | | NA | | | | |
| LNAV/VNAV DA | 2293 | 1 3/8 | 479 | 2293 | 1 3/8 | 479 | | NA | | | NA | | | | |
| LNAV MDA | 2320 | 1 | 506 | 2320 | 1 | 506 | | NA | | | NA | | | | |



CHANGES - REASONS

1. LNAV/VNAV MINIMUMS CHANGED DA/HAT FROM 2101/287 TO DA/HAT 2293/479 ALL CATS. LNAV/VNAV VISIBILITY CHANGED FROM 1 TO 1 3/8 SM - NEW CONTROLLING OBSTACLE.
2. LINE 2 ADDED MAX 6000- REVISED CRITERIA.
3. PREVIOUSLY CHARTED CHANGES FROM P-NOTAM ACTIONS FOR AMENDMENTS 1A, 1B AND 1C HAVE BEEN INCORPORATED ON THIS FORM. - REQUIRED IAW 8260.19H PARA 8-3-4C(3).
4. UPDATED 34:1 IS NOT CLEAR TO 34:1 IS CLEAR AND ADDED 20:1 IS CLEAR - NO PENETRATIONS TO THE VISUAL SURFACE EXIST.
5. HAL CHANGED FROM 50 TO 40 ON FAS DATA SHEET - PREVIOUSLY CHANGED IN ERROR, LPV MINIMUMS AVAILABLE.
6. TERMINAL ROUTES: MAP REFERENCE ALTITUDE CHANGED FROM 2043 MSL TO 2051 MSL - NEW TARGETS EVALUATION.
7. CHANGED CHART NOTE "USE AURORA MUNI ALTIMETER SETTING; WHEN NOT RECEIVED, USE CENTRAL NEBRASKA RGNL ALTIMETER SETTING AND INCREASE ALL DA 18 FEET AND ALL MDA 20 FEET." TO "USE AURORA ALTIMETER SETTING; WHEN NOT RECEIVED, USE GRAND ISLAND ALTIMETER SETTING: INCREASE LPV DA TO 2119 FEET AND LNAV/VNAV DA TO 2311 FEET; INCREASE ALL MDAS 20 FEET. - NEW CRITERIA APPLIED, (8260.19H 8-6-1)
8. CHANGED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HSI VOR/DME ON V380 NORTHBOUND." TO "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON HSI VOR/DME AIRWAY RADIALS 037 CW 164." - IAW FAAO 8260.19H, PARA 8-2-5.E
9. CHANGED TERMINAL ROUTE FROM "RW35 TO 2043 MSL" TO "RW35 TO 2101" AND TERMINAL ROUTE FROM "2043 MSL TO ZIGIS" TO "2101 MSL TO ZIGIS" - LPV DA INCREASE.
10. REMOVED "CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED." - NO 34:1 PENETRATIONS EXIST.
11. CHANGED LPV DA/HAT FROM 2051/237 TO 2101/287 - PER .3D PARA 1-2-3 AND AC 153/5300-13 TABLE 3-4.
12. CHANGED FROM DISTANCE TO THLD FROM 237 HAT: 0.64 TO DISTANCE TO THLD FROM 287 HAT: 0.80 - LPV HAT INCREASE.
13. CHANGED FAS DATA BLOCK FPAP FROM 404012.8800N/0980457.7200W TO 404012.8795N/0980457.7285W, VAL FROM 35 TO 50 AND CRC REMAINDER FROM 03C018F9 TO 1672C83B - TARGETS EVALUATION.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZMP, NE STATE AERO, AMGR.

FLIGHT CHECKED BY

Digitally signed by

JOHN BORDY

Dec 23, 2020

OFFICE

FICO

DATE

12/21/2020

DEVELOPED BY

Digitally signed by

JOHN BORDY

Dec 23, 2020

OFFICE

AJV-A422

DATE

06/07/2020

APPROVED BY

MARLON ROBINSON

Digitally signed by

JOHN BORDY

Dec 23, 2020

OFFICE

AJV-A420

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | 08K |
| RUNWAY | RW35 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W35A |
| LTP/FTP LATITUDE | 403843.7250N |
| LTP/FTP LONGITUDE | 0980456.7165W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +05248 |
| FPAP LATITUDE | 404012.8795N |
| FPAP LONGITUDE | 0980457.7285W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00040.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 1616 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| | |
| CRC REMAINDER | 1672C83B |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K3 |
| LTP ORTHOMETRIC HEIGHT | +05505 |
| FPAP ORTHOMETRIC HEIGHT | +05505 |

