

**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> UWL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> NEW CASTLE	<u>STATE</u> IN		
<u>AIRPORT ELEVATION</u> 1090	<u>TDZE</u> 1089	<u>SUPERSEDED</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 04/25/2019	<u>MAG VAR</u> 6W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 21 MARCH 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 006/30 CW 186/30	NOPT	HAFHU	IF/IAF	3000
2. 186/30 CW 006/30		HAFHU	IF/IAF	3000

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
HAFHU	IF/IAF	KOGDE		TF	FB	1.00	096.23	7.58	2600
KOGDE	FAF	SADSE/1.80 NM TO RW10		TF	FB	0.30	096.34	2.83	
SADSE/1.80 NM TO RW10		RW10	MAP	TF	FO	0.30	096.34	1.80	
RW10	MAP	1339 MSL		CA			096.34		
1339 MSL		TASUY		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW10

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT TASUY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD W HAFHU, RT, 096.23 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	096.34	FAF:	KOGDE	DIST FAF TO MAP:	4.63	DIST FAF TO THLD:	4.63							
4.	MIN ALT:	HAFHU 3000, KOGDE 2600, SADSE/1.80 NM TO RW10 1680													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		250 HAT:	0.67	GS ANT:				
6.	MIN GP INCPT:	2600	GP ALT AT PFAF:	KOGDE 2600					OM:		MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR	TCH:	45.8							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 10 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING AID ALTIMETER SETTING.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ANDERSON ALTIMETER SETTING; INCREASE LPV DA TO 1408 FEET; INCREASE LNAV/VNAV DA TO 1424 FEET; INCREASE ALL MDAS 80 FEET, LNAV VISIBILITY CAT C/D 3/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 276.58 INBOUND.
CHART FAS OBST: 1195 TREE (18-048093) 395249N/0852228W.
CHART VDP AT 1.05 NM TO RW10.
WAAS CHANNEL # 82041
REFERENCE PATH ID: W10A
CHART CIRCLING ICON.
LTP HAE: 295.4 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD; STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	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	1339	1	250	1339	1	250	1339	1	250	1339	1	250			
LNAV/VNAV DA	1355	1	266	1355	1	266	1355	1	266	1355	1	266			
LNAV MDA	1460	1	371	1460	1	371	1460	1	371	1460	1	371			
CIRCLING	1520	1	430	1540	1	450	1720	1 3/4	630	1720	2	630			



CHANGES - REASONS

1. CHANGED LPV DA/HAT FROM 1408/319 TO 1339/250, LNAV/VNAV DA/HAT FROM 1433/344 TO 1355/266, LNAV MDA/HAT FROM 1520/431 TO 1460/371, CIRCLING CAT A MDA/HAA FROM 1580/490 TO 1520/430, CAT B MDA/HAA FROM 1600/510 TO 1540/450, CAT C MDA/HAA FROM 1780/690 TO 1720/630, CAT D MDA/HAA FROM 1780/690 TO 1720/630 - UPDATED PROCEDURE EVALUATION, FPT/OBSTACLE IMPACT TEAM CONCURRENCE.

2. LNAV VISIBILITY CHANGED FROM CAT C AND D 1 1/4 TO CAT C AND D 1- IAW 8260.3E TABLE 3-3-1.

3. CIRCLING VIS CHANGED FROM CAT C 2, CAT D 2 1/4 TO CAT C 1 3/4, CAT D 2 - IAW 8260.3E TABLE 3-3-7.

4. TERMINAL ROUTES: CHANGED CA LEG ALTITUDE FROM 1407 TO 1339 - UPDATED PROCEDURE EVALUATION.

5. LINE 4: REMOVED ASTERISK - NO LONGER REQUIRED PER FAAO 8260.19I, PARA 8-6-7D(2) CRITERIA.

6. LINE 5 CHANGED FROM 319 HAT: 0.88 TO 250 HAT: 0.67 - HAT LOWERED DUE TO NEW PROCEDURE EVALUATION.

7. PBN REQUIREMENTS NOTE: CHANGED "RNP APCH" TO "RNP APCH - GPS" - REQUIRED DOCUMENTATION PER MEMO 276, ATTCH 4, PARA 7 CRITERIA.

8. NOTES: CHANGED "BARO-VNAV NA" TO "BARO-VNAV AND VDP NA WHEN USING ANDERSON ALTIMETER SETTING" - IAW FAAO 8260.19I, PARAS 8-6-9E(8) AND (9) CRITERIA.

9. NOTES: REMOVED "*LNAV ONLY" - NO LONGER REQUIRED PER MEMO 276, ATTACH 3, PARA 4 CRITERIA.

10. NOTES: CHANGED BACKUP ALTIMETER NOTE FROM "USE ANDERSON ALTIMETER SETTING; WHEN NOT RECEIVED, USE MUNCIE ALTIMETER SETTING AND INCREASE LPV DA TO 1412, LNAV/VNAV DA TO 1437, AND ALL MDA 20 FEET; INCREASE LNAV CAT C/D VISIBILITY 1/8 SM" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ANDERSON ALTIMETER SETTING; INCREASE LPV DA TO 1408 FEET; INCREASE LNAV/VNAV DA TO 1424 FEET; INCREASE ALL MDAS 80 FEET, LNAV VISIBILITY CAT C/D 3/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM" - LOCAL ALTIMETER SOURCE EMPLOYED/BOTH ALTIMETER SOURCES TRANSMIT ON WMSCR/REQUIRED DOCUMENTATION PER FAAO 8260.19I, PARA 8-6-9F(3) CRITERIA.

11. NOTES: ADDED "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C" - LOCAL ALTIMETER SOURCE EMPLOYED/REQUIRED DOCUMENTATION PER FAAO 8260.19I, PARA 8-6-9R CRITERIA.

12. ADDITIONAL FLIGHT DATA: REMOVED "CHART ANDERSON MUNI-DARLINGTON FIELD AWOS-3" - NO LONGER REQUIRED/LOCAL ALTIMETER SOURCE EMPLOYED.

13. ADDITIONAL FLIGHT DATA: ADDED "CHART VDP AT 1.05 NM TO RW10" - LOCAL ALTIMETER SOURCE EMPLOYED/REQUIRED DOCUMENTATION PER FAAO 8260.19I, PARA 8-6-10M CRITERIA.

14. ADDED CHART FAS OBST: 1195 TREE (18-048093) 395249N/0852228W - IAW 8260.19I PARA 8-6-10.C.

15. ALTERNATE MINIMUMS: ADDED "STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE" - LOCAL ALTIMETER SOURCE EMPLOYED/REQUIRED DOCUMENTATION PER MEMO 276, ATTACH 4, PARA 5B(1) CRITERIA.

16 CRC REMAINDER CHANGED FROM 89D95608 TO A682C8B2 - FPAP COORDINATES CHANGED FROM 395235.7395N/0851802.2430W. TO 395235.7445N/0851802.2430W.

02/06/2024: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 10/02/2023.

1. ADDED PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - PER FLIGHT INSPECTION REPORT.

COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER:

ZID, IND APP CON, AMGR

FLIGHT CHECKED BY

SHAWN DOUGLAS MAXWELL

Digitally signed by

ALLAN WILL

Feb 07, 2024

OFFICE

FIOG

DATE

02/01/2024

DEVELOPED BY

WILLIAM D. MELTON

Digitally signed by

WILLIAM D MELTON

Feb 06, 2024

OFFICE

AJV-A423

DATE

10/02/2023

APPROVED BY

MICHAEL R. GARRITY JR.

Digitally signed by

ALLAN WILL

Feb 07, 2024

OFFICE

AJV-A423

DATE

TITLE

MANAGER



AIRPORT ID
UWL

PROCEDURE NAME
RNAV (GPS) RWY 10

ORIGINAL/AMENDMENT
1

CITY
NEW CASTLE

STATE
IN

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KUWL
RUNWAY	RW10
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	395236.3790N
LTP/FTP LONGITUDE	0851957.9745W
LTP/FTP ELLIPSOIDAL HEIGHT	+02954
FPAP LATITUDE	395235.7445N
FPAP LONGITUDE	0851802.2430W
THRESHOLD CROSSING HEIGHT (TCH)	00045.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1472
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	A682C8B2
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03292
FPAP ORTHOMETRIC HEIGHT	+03292