

**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> FSW	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 35	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> FORT MADISON	<u>STATE</u> IA
<u>AIRPORT ELEVATION</u> 722	<u>TDZE</u> 722	<u>SUPERSEDED</u> RNAV (GPS) RWY 35	<u>DATED</u> 05/24/2018	<u>MAG VAR</u> 0W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ORIGINAL/AMENDMENT</u> 1	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2010
		<u>ACTUAL EFFECTIVE DATE</u> 12 JUNE 2025	<u>CANCEL/SUSPEND</u>	

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 257/30 CW 077/30	NOPT	257/15 CW 077/15		2700
2. 257/15 CW 077/15		DRIBS	IF/IAF	2600
3. 077/30 CW 167/30		LUGIF	IAF	2600
4. 167/30 CW 257/30		ZONOL	IAF	2600

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>
BRL VOR/DME		ZONOL		TF	FB	1.00	208.94	16.10	2600
LOAMY		LUGIF		TF	FB	1.00	089.18	15.95	2600
LUGIF	IAF	DRIBS	NOPT	TF	FB	1.00	076.78	8.00	2600
ZONOL	IAF	DRIBS	NOPT	TF	FB	1.00	257.00	8.00	2600
DRIBS	IF/IAF	AWIRU		TF	FB	1.00	346.89	6.90	2400
AWIRU	FAF	FILLS/2.00 NM TO RW35		TF	FB	0.30	346.87	3.14	
FILLS/2.00 NM TO RW35		RW35	MAP	TF	FO	0.30	346.87	2.00	
RW35	MAP	972 MSL		CA			346.87		
972 MSL		HOTTS		DF	FO	1.00			2600

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW35

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2600 DIRECT HOTTS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD S DRIBS, RT, 346.89 INBOUND, 2600 FT. IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	346.87	FAF:	AWIRU	DIST FAF TO MAP:	5.14	DIST FAF TO THLD:	5.14							
4.	MIN ALT: DRIBS 2600, AWIRU 2400, FILLS/2.00 NM TO RW35 1400														
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		250 HAT:	0.65	GS ANT:				
6.	MIN GP INCPT:	2400	GP ALT AT PFAF:	AWIRU 2400					OM:		MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	50.0							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING BRL ALTIMETER SETTING.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BRL VOR/DME AIRWAY RADIALS 127 CW 241.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LOAMY ON V10 SOUTHWEST BOUND.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BRL ALTIMETER SETTING; INCREASE LPV DA TO 1004 FEET; INCREASE LNAV/VNAV DA TO 1190 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CATS C AND D 1/4 SM, AND CIRCLING VISIBILITY CAT D 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 166.81 INBOUND.
CHART FAS OBST: 881 TOWER (19-000508) 403834N/0911952W.
CHART HOWARD WEST MOA.
CHART VDP AT 1.24 NM TO RW35.
WAAS CHANNEL # 70741
REFERENCE PATH ID: W35A
CHART CIRCLING ICON.
LTP HAE: 184.8 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, 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	972	1	250	972	1	250	972	1	250	972	1	250			
LNAV/VNAV DA	1158	1 1/4	436	1158	1 1/4	436	1158	1 1/4	436	1158	1 1/4	436			
LNAV MDA	1140	1	418	1140	1	418	1140	1 1/8	418	1140	1 1/8	418			
CIRCLING	1200	1	478	1200	1	478	1260	1 1/2	538	1500	2 1/2	778			



CHANGES - REASONS

1. TAA, STRAIGHT-IN SECTOR: MOVED "NO PT" FROM 15 NM STEPDOWN ARC TO 30 NM ARC - 8260.19J PARA 8-6-3.A.(1)(B).
2. TAA, LEFT BASE AND RIGHT BASE SECTORS: REMOVED "NO PT" - NOT REQUIRED AND REDUNDANT, THE FOLLOWING INITIAL LEGS ARE LABELED "NO PT".
3. TAA, ALL SECTORS: REMOVED ALL REFERENCES TO "(FB)" - NOT REQUIRED.
4. TERMINAL ROUTES, FEEDER SEGMENTS FROM BRL VOR/DME AND LOAMY: CHANGED RNP FROM 2.00 TO 1.00 - 8260.58C TABLE 1-2-1, FEEDER SEGMENT INSIDE 30 NM FROM ARP.
5. PROFILE LINE 2: ADDED "MAX 6000" - 8260.19J PARA 8-6-7.B.(2).
6. PROFILE LINE 4: REMOVED ASTERISK FROM "FILLS/2.00 NM TO RW35 1400" - LABELING "LNAV ONLY" NO LONGER REQUIRED.
7. PROFILE LINE 5: ADDED "DIST TO THLD FROM 250 HAT: 0.65 NM" - MOVED FROM ADDITIONAL FLIGHT DATA, 8260.19J PARA 8-6-7.E.(3).
8. PBN REQUIREMENTS NOTE: UPDATED FROM "RNP APCH" TO RNP APCH - GPS" - GPS SENSOR REQUIRED, 8260.19J PARA 8-6-8.D.(5)(A)1.
9. NOTES: REFORMATTED "UNCOMPENSATED BARO-VNAV SYSTEMS" NOTE TO REMOVE FAHRENHEIT REFERENCES - 8260.19J PARA 8-6-10.R.
10. NOTES: RESTORED "BARO-VNAV AND VDP NA WHEN USING BRL ALTIMETER SETTING" FROM 8260-9 - FPT REQUEST TO CHART BACK-UP ALTIMETER DATA.
11. NOTES: CHANGED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BRL VOR/DME AIRWAY RADIALS 127 CW 282" TO "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BRL VOR/DME AIRWAY RADIALS 127 CW 241" - REPLACED R-282 WITH R-241, NO AIRWAY IS CHARTED ON R-282.
12. NOTES: ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LOAMY ON V10 SOUTHWEST BOUND" - LIMIT TURN AT LOAMY TO 90 DEGREES, 8260.19J PARA 8-2-5.E.(2) AND 8260.58C PARA 1-2-5.A.(3).
13. NOTES: RESTORED BACK-UP ALTIMETER NOTE FROM 8260-9 - FPT REQUEST TO CHART BACK-UP ALTIMETER DATA.
14. ADDITIONAL FLIGHT DATA: ADDED OBSTACLE ID "19-000508" TO "CHART FAS OBST" DATA - 8260.19J PARA 8-6-11.C.
15. ADDITIONAL FLIGHT DATA: REMOVED ASTERISK FROM "CHART VDP AT 1.24 NM TO RW35" - LABELING "LNAV ONLY" NO LONGER REQUIRED.
16. ADDITIONAL FLIGHT DATA: DELETED "*LNAV ONLY" - NO LONGER REQUIRED.
17. ALTERNATE MINIMUMS: ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" - MOVED FROM 8260-9, LOCAL WEATHER REQUIRED FOR ALTERNATE MINS, 8260.3F PARA 3-4-1.A.(1).
18. MINIMUMS: INCREASED CIRCLING CAT C MDA/HAA FROM 1220/498 TO 1260/538 - NEW CONTROLLING OBSTACLE.
19. FAS DATA: CHANGED FPAP LAT/LONG FROM 404040.3470N/0912000.6030W TO 404040.3475N/0912000.6010W - NEW FPAP CALCULATION.
20. FAS DATA: CHANGED CRC REMAINDER FROM C76123A3 TO BA4993C7 - NEW FAS DATA CALCULATION.

COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER: ZAU, ZKC, AMGR

FLIGHT CHECKED BY

SCOTT WIEBE

Digitally signed by

RAKE MCGRAW

Apr 14, 2025

OFFICE

AJF

DATE

03/28/2025

DEVELOPED BY

RICHARD BRUCE

Digitally signed by

RICHARD A BRUCE

Nov 12, 2024

OFFICE

AJV-A422

DATE

11/12/2024

APPROVED BY

BEV L BORDY

Digitally signed by

RAKE MCGRAW

Apr 14, 2025

OFFICE

AJV-A420

DATE

TITLE

MANAGER



AIRPORT ID
FSW

PROCEDURE NAME
RNAV (GPS) RWY 35

ORIGINAL/AMENDMENT
1A

CITY
FORT MADISON

STATE
IA

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFSW
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	403913.5280N
LTP/FTP LONGITUDE	0911933.9605W
LTP/FTP ELLIPSOIDAL HEIGHT	+01848
FPAP LATITUDE	404040.3475N
FPAP LONGITUDE	0912000.6010W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	BA4993C7
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02180
FPAP ORTHOMETRIC HEIGHT	+02180

