

**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> D42	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>CITY</u> SPRINGFIELD	<u>STATE</u> MN		
<u>AIRPORT ELEVATION</u> 1073	<u>TDZE</u> 1073	<u>SUPERSEDED</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 07/21/2016	<u>MAG VAR</u> 2E	<u>EPOCH YEAR</u> 2015
<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
RWF VOR/DME		UWGAG		TF	FO	1.00	144.80	26.47	2900
YOPBU	IAF	UWGAG	NOPT	TF	FB	1.00	025.37	15.77	2900
WAGIK	IAF	UWGAG	NOPT	TF	FB	1.00	287.63	13.48	2900
UWGAG	IF/IAF	WOXIG		TF	FB	1.00	310.07	7.00	2600
WOXIG	FAF	ZEKEX/2.00 NM TO RW31		TF	FB	0.30	309.99	2.69	
ZEKEX/2.00 NM TO RW31		RW31	MAP	TF	FO	0.30	309.99	2.00	
RW31	MAP	1473 MSL		CA			309.99		
1473 MSL		ZIVLO		DF	FO	1.00			2900

**MISSED APPROACH**

**MAP:**

LNAV: RW31

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2900 DIRECT ZIVLO AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

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

2. HOLD SE UWGAG, RT, 310.07 INBOUND, 2900 FT. IN LIEU OF PT (IAF), MAX 6000.

3. **FAC:** 309.99    **FAF:** WOXIG    **DIST FAF TO MAP:** 4.69    **DIST FAF TO THLD:** 4.69

4. **MIN ALT:**    UWGAG 2900, WOXIG 2600, ZEKEK/2.00 NM TO RW31 1740

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

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

7. **GP ANGLE:**    **34:1:** IS CLEAR    **20:1:** IS CLEAR    **TCH:**

8. **MSA FROM:**    RW31 3100

**PBN REQUIREMENTS NOTE:**

RNP APCH.

**NOTES:**

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
 CHART NOTE: USE REDWOOD FALLS ALTIMETER SETTING.  
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON RWF VOR/DME AIRWAY RADIALS 054 CW 229.

**ADDITIONAL FLIGHT DATA:**

WOXIG TO RW31: 3.00/40.  
 CHART REDWOOD FALLS MUNI ASOS.  
 HOLD NW, RT, 129.78 INBOUND.  
 CHART FAS OBST: 1157 TREE 441257N/0945916W.  
 CHART CIRCLING ICON.

**MINIMUMS:**

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

**ALTERNATE:** NA

<b>CATEGORY:</b>	<b>A</b>			<b>B</b>			<b>C</b>			<b>D</b>			<b>E</b>		
	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>												
LNAV MDA	1500	1	427	1500	1	427	1500	1 1/4	427		NA				
CIRCLING	1660	1	587	1820	1	747	1820	2 1/4	747		NA				



**CHANGES - REASONS**

1. INCORPORATED CHANGES FROM P-NOTAM AMDTS ORIG-A AND ORIG-B.
2. CIRCLING CAT B MDA/HAA INCREASED FROM 1660/587 TO 1820/747. - NEW CIRCLING RADII APPLIED IAW 8260.3D.
3. CHANGED CA ALTITUDE FROM 1472 TO 1473. - AIRPORT ELEVATION CHANGED FROM 1472 TO 1473.
4. UPDATED PROFILE LINE 7: ADDED 20:1 IS CLEAR. - NO 20:1 PENETRATIONS.
5. REMOVED CHART NOTE: DME/DME RNP-0.3 NA; ADDED PBN REQUIREMENTS NOTE: RNP APCH. - IAW 8260.58A TABLE 1-2-1.
6. UPDATED CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT UPDATED TO VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). - IAW 8260.19H 8-6-9 M(2).
7. UPDATED BACKUP ALTIMETER CHART NOTE FROM "USE REDWOOD FALLS ALTIMETER SETTING; WHEN NOT RECEIVED, USE NEW ULM ALTIMETER SETTING" TO "USE REDWOOD FALLS ALTIMETER SETTING." - CONTINGENCY ALTIMETER MOVED TO 8260-9 REMARKS IAW 8260.19H 8-6-9 F(3).
8. CHANGED LNAV FAS OBSTACLE FROM: 1189 TREE 441256N/0955940W TO: 1157 TREE 441257N/0945916W. - NEW OBSTACLE EVALUATION.
9. PROFILE LINE 2: HOLD-IN-LIEU MAX ALTITUDE 6000 ADDED. - UPDATED FORMS.
10. ADDITIONAL FLIGHT DATA: CHART CIRCLING ICON ADDED. - NEW CIRCLING RADII APPLIED IAW 8260.3D AND DOCUMENTED IAW 8260.19I.

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZMP, RWF FSS

**FLIGHT CHECKED BY**

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-1000) MEMO, DATED JUNE 4, 2020,  
SUBJECT: FLIGHT INSPECTION OF NEW CONTROLLING OBSTACLES.

**OFFICE** *Digitally signed by*  
**JON DENTON**

**DATE**

*Digitally signed by*

**JON DENTON**

Nov 30, 2020

**DEVELOPED BY**

WARDELL HENNING (BARBARA GORMAN)

**OFFICE**  
AJV-A432

**DATE**  
10/16/2020

*Digitally signed by*

**JON DENTON**

Nov 30, 2020

**APPROVED BY**

LONNIE EVERHART

**OFFICE**  
AJV-A430

**DATE**

**TITLE**  
MANAGER

