

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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> RST	<u>PROCEDURE NAME</u> ILS Z OR LOC Z RWY 31 ILS Z RWY 31 (SA CAT I) ILS Z RWY 31 (CAT II)		<u>ORIGINAL/AMENDMENT</u> 24	<u>CITY</u> ROCHESTER	<u>STATE</u> MN	
<u>AIRPORT ELEVATION</u> 1317	<u>TDZE</u> 1304	<u>SUPERSEDED</u> ILS Z OR LOC Z RWY 31 ILS Z RWY 31 (SA CAT I) ILS Z RWY 31 (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 23B	<u>DATED</u> 09/08/2022	<u>MAG VAR</u> 1W	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> I-RST	<u>COORDINATES OF FACILITIES</u>		<u>ACTUAL EFFECTIVE DATE</u> 11 JULY 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	

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>
RST VOR/DME		MINGO INT	FAF/IAF				057.66	9.16	2900
YESUR/RST 13.00 DME CCW	IAF	EGACE/RST 13.00 DME	NOPT				13.00 DME ARC		3700
EGACE/RST 13.00 DME CCW		TECUY INT					13.00 DME ARC (RST LR-095)		2900
EMORE INT	IAF	TECUY INT	NOPT				313.14	6.59 (I-RST)	2900
TECUY INT	IF	MINGO INT					313.14	6.55 (I-RST)	2800

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.52 NM AFTER MINGO INT

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3000 DIRECT RST VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF (IAF)
- HOLD SE MINGO INT, RT, 313.14 INBOUND, 2800 FT. IN LIEU OF PT (IAF), MAX 5000.
- FAC: 313.14 FAF: MINGO INT DIST FAF TO MAP: 4.52 DIST FAF TO THLD: 4.52
- MIN ALT: MINGO INT 2800, MAGLT INT 2380
- DIST TO THLD FROM OM: MM: IM: 100 HAT: 836.00 150 HAT: 1792.00 GS ANT: 1129
- MIN GS INCPT: 2800 GS ALT AT PFAF: MINGO INT 2800 OM: MM: IM:
- GS ANGLE: 3.00 34:1 20:1 TCH: 55.3
- MSA FROM: RST VOR/DME 090-270 3900, 270-090 3300



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED FOR PROCEDURE ENTRY AT YESUR.

NOTES:

SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 31: CAT A, B, C, D, RA 204, RVR 1400, HAT 150, DA 1454 MSL
CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 31: CAT A, B, C, D, RA 104, RVR 1200, HAT 100, DA 1404 MSL
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.
SA CAT I/CAT II CHART NOTE: PROCEDURE NA WHEN TOWER CLOSED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RST VOR/DME ON V82-170 WESTBOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 31 CAT C/D VISIBILITY TO RVR 4500.

ADDITIONAL FLIGHT DATA:

CHART RST R-086 AT TECUY.

HOLD SW, RT, 025.14 INBOUND.
CHART FAS OBST: 1365 TREE (27-055942) 435356N/0922904W.
1519 AAO 435112N/0922318W.
CHART RST R-168 AT YESUR.
CHART RST R-125 AT EGACE.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD

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
S-ILS 31	1504	1800	200	1504	1800	200	1504	1800	200	1504	1800	200			
S-LOC 31	1620	2400	316	1620	2400	316	1620	2400	316	1620	2400	316			
CIRCLING	1720	1	403	1780	1	463	1900	1 1/2	583	1900	2	583			

CHANGES - REASONS

1. PROFILE LINE 7: CHANGED TCH FROM 56.1 TO 55.3 - 55.3 IS A DESIGN TCH LISTED IN AIRNAV.
2. NOTES: REMOVED SA CAT II MINIMA AND ALL ASSOCIATED NOTES AND REPLACED SA CAT II WITH A CAT II – FPT REQUESTED PROCEDURE CHANGE.
3. NOTES: CHANGED NOTE SA CAT I/II CHART NOTE: PROCEDURE NA WHEN TOWER CLOSED FROM SA CAT I/II TO SA CAT I/CAT II – CAT II REPLACING SA CAT II.
4. TERMINAL ROUTES: LOC FINAL: ADDED A STEP DOWN AT NEW FIX MAGLT- NEW CONTROLLING OBSTACLE, TO RETAIN PUBLISHED LOC MINIMUMS.
5. PROFILE: PROFILE LINE 4: CHANGED MIN ALT FROM "MINGO INT 2800" TO " MINGO INT 2800, MAGLT INT 2380" - SDF ADDED TO LOC FINAL SEGMENT.
6. TERMINAL ROUTES: FIX MINGO (PFAF) MOVED 14.1964 FEET SOUTHEAST AND CHANGED COURSE FROM RST VOR/DME TO MINGO FROM 057.64 TO 057.66 - TCH CHANGED FROM 56.1 TO 55.3, TARGETS GENERATED PFAF LOCATION BASED ON ANGLE/TCH.
7. NOTES: UPDATED CHART NOTE FOR INOPERATIVE ALS, INCREASE S-LOC 31 CAT C/D VISIBILITY TO RVR 4500 - IAW 8260.3 TABLE 3-3-1.
8. ADDITIONAL FLIGHT DATA: CHANGED 7:1 OBS FROM 1510 AAO TO 1519 AAO - UPDATED OBS EVAL.
9. PROFILE: PROFILE LINE 5: REMOVED 1032 FROM DIST TO THLD FROM OM - PROCEDURE DOES NOT USE AN OM.



