

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> MSN	<u>PROCEDURE NAME</u> ILS OR LOC RWY 18 ILS RWY 18 (SA CAT I) ILS RWY 18 (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 2B	<u>CITY</u> MADISON	<u>STATE</u> WI		
<u>AIRPORT ELEVATION</u> 887	<u>TDZE</u> 864	<u>SUPERSEDED</u> ILS OR LOC RWY 18 ILS RWY 18 (SA CAT I) ILS RWY 18 (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 2A	<u>DATED</u> 12/05/2019	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> I-DSZ	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 31 OCTOBER 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>
MSN VORTAC		RUKIY/I-DSZ 6.56 DME/RADAR					358.20	5.16	3000
DLL VORTAC	IAF	DECAL INT/15.65 DME	NOPT				114.94 (LR-351)	21.46	3000
DECAL INT/15.65 DME	IF	GATNE INT/9.79 DME					184.94 (I-DSZ)	5.87	2700
GATNE INT/9.79 DME		RUKIY/I-DSZ 6.56 DME/RADAR					184.94 (I-DSZ)	3.23	2500

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: I-DSZ 1.59 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2700 ON MSN VORTAC R-180 TO MONAH INT/MSN VORTAC 4.93 DME/RADAR AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

CLIMB TO 1400 THEN CLIMBING LEFT TURN TO 3500 ON HEADING 070 AND ON BAE VORTAC R-270 TO DREAR/BAE 33.66 DME AND HOLD.

**PROFILE:**

1.	PT	L	SIDE OF COURSE	004.94	OUTBOUND	2800	FT WITHIN	10	MILES OF	RUKIY/I-DSZ 6.56 DME/RADAR (IAF)		
2.												
3.	FAC:	184.94	FAF:	RUKIY/I-DSZ 6.56 DME/RADAR				DIST FAF TO MAP:		DIST FAF TO THLD:	4.97	
4.	MIN ALT:	GATNE INT/9.79 DME 2700, RUKIY/I-DSZ 6.56 DME/RADAR 2500, JOGRI/I-DSZ 3.19 DME 1420										
5.	DIST TO THLD FROM OM:		MM:		IM:		100 HAT:	904	150 HAT:	1858	GS ANT:	1094
6.	MIN GS INCPT:	2500	GS ALT AT PFAF:	RUKIY/I-DSZ 6.56 DME/RADAR 2500				OM:		MM:		
7.	GS ANGLE:	3.00	34:1:		20:1:		TCH:	57.3				
8.	MSA FROM:	MSN VORTAC 180-360 3600, 360-180 3100										



**AIRPORT ID**  
MSN

**PROCEDURE NAME**  
ILS OR LOC RWY 18  
ILS RWY 18 (SA CAT I)  
ILS RWY 18 (SA CAT II)

**ORIGINAL/AMENDMENT**  
2B

**CITY**  
MADISON

**STATE**  
WI

**EQUIPMENT REQUIREMENTS NOTES:**

DME OR RADAR REQUIRED.

**NOTES:**

SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 18: CAT A, B, C, D, RA 153, RVR 1400, HAT 150, DA 1014 MSL  
SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 18: CAT A, B, C, D, RA 103, RVR 1200, HAT 100, DA 964 MSL  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MSN VORTAC ON V228 NORTHWEST BOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON DLL VORTAC AIRWAY RADIALS 094 CW 140.  
CHART PROFILE NOTE: USE I-DSZ DME WHEN ON THE LOCALIZER COURSE.  
SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.  
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.  
CHART PLANVIEW NOTE: PROCEDURE TURN NA FOR CAT E.  
CHART NOTE: FOR INOPERASE ALS, INCREASE S-ILS 18 CAT E VISIBILITY TO RVR 4000 AND S-LOC 18 CAT C/D/E VISIBILITY TO RVR 5500.  
SA CAT I/II CHART NOTE: PROCEDURE NA WHEN TOWER CLOSED.  
CHART NOTE: \*RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

**ADDITIONAL FLIGHT DATA:**

CHART IN PLANVIEW ONLY: DLL 21.46 DME AT DECAL.

HOLD S, RT, 000.20 INBOUND.  
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W DREAR/BAE 33.66 DME, LT, 090.43 INBOUND.  
CHART FAS OBST: 979 TREE (55-069363) 431058N/0892006W.  
1210 AAO 431349N/0891923W.  
CHART VDP AT 2.60 DME.  
DISTANCE VDP TO THLD 1.01 NM.  
CHART IN PLANVIEW: DREAR/BAE 33.66 DME.  
CHART CIRCLING ICON.

**MINIMUMS:**

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

**ALTERNATE:** NA ☐ ILS: STANDARD - NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD - CAT D 900-2 3/4, CAT E 900-3, NA WHEN CONTROL TOWER CLOSED.

<b><u>CATEGORY:</u></b>	<b><u>A</u></b>			<b><u>B</u></b>			<b><u>C</u></b>			<b><u>D</u></b>			<b><u>E</u></b>		
<b><u>FINAL TYPE</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>	<b><u>DA/MDA</u></b>	<b><u>VIS</u></b>	<b><u>HAT/HAA</u></b>
S-ILS 18*	1064	2400	200	1064	2400	200	1064	2400	200	1064	2400	200	1064	2400	200
S-LOC 18	1240	2400	376	1240	2400	376	1240	3500	376	1240	3500	376	1240	3500	376
CIRCLING	1420	1	533	1460	1	573	1460	1 1/2	573	1700	2 3/4	813	1700	3	813

**CHANGES - REASONS**

1. CHANGE EQUIPMENT REQUIREMENTS: FROM NOTE: DME REQUIRED TO NOTE: DME OR RADAR REQUIRED - UPDATES CHART NOTES IAW 8260.19J.
2. DELETE PROFILE NOTE: \* LOC ONLY - UPDATES CHART NOTES IAW 8260.19J.
3. DELETE ASTERISK FROM 1420 AT JOGRI/I-DSZ 3.2 DME - UPDATES CHART NOTES IAW 8260.19J.
4. DELETE ASTERISK FROM VDP AT I-DSZ 2.6 DME - NA PER FLIGHT CHECK AND UPDATES CHART NOTES IAW 8260.19J.
5. CHANGE ALL REFERENCE TO RUKIY INT/I-DSZ 6.56 DME/RADAR TO RUKIY/I-DSZ 6.56 DME/RADAR - PER FLIGHT CHECK AND UPDATES CHART NOTES IAW 8260.19J.
6. ADDED OBSTACLE ID (55-069363) TO FAS OBST - IAW 8260.19J, PARA 8-6-11 C.
7. CHANGE CHART NOTE: FROM \*\*RVR TO \*RVR - IAW 8260.19J 8-6-12 - K(1).



**COORDINATED WITH:**

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZAU, MSN ATCT, AMGR, ANG/DOBA

**FLIGHT CHECKED BY**

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE

DATE

*Digitally signed by*  
**ALLAN WILL**  
Aug 07, 2024

**DEVELOPED BY**

RICHARD CAMPBELL

*Digitally signed by*  
**RICHARD E CAMPBELL**  
Aug 06, 2024

OFFICE

AJV-A423

DATE

06/28/2023

**APPROVED BY**

ALLAN WILL

OFFICE

AJV-A423

DATE

TITLE

MANAGER

*Digitally signed by*  
**ALLAN WILL**  
Aug 07, 2024