

U.S. DEPARTMENT OF TRANSPORTATION — FEDERAL AVIATION ADMINISTRATION
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
 FLIGHT STANDARDS SERVICE - FAR PART 97. 23

Bearings, headings, courses and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, 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 in feet RVR.

TERMINAL ROUTES				MISSED APPROACH
FROM	TO	COURSE AND DISTANCE	ALT	
ALO VORTAC (IAF)	HOLLY 10 DME/RADAR	062/10	2700	MAP: 5.0 mi. after GRELL 15 DME/ RADAR or at 20.0 DME Climbing left turn to 2700 via ALO R-062 to GRELL 15 DME/RADAR and hold.
HOLLY 10 DME/RADAR	GRELL 15 DME/RADAR	062/5	2700	
				ADDITIONAL FLIGHT DATA Hold SW, LT, 062 inbound. FAS Obst: 1199 Trees 424243/915857. FAC crosses center of Rwy 13/31.

- PT NA SIDE OF CRS _____ OUTBND _____ FT WITHIN _____ MI. OF _____ (IAF)
- Profile starts at ALO VORTAC.
- FAC 062 FAF GRELL 15 DME/RADAR DIST FAF TO: MAP 5.0 THLD -
- MIN ALT ALO VORTAC 4000; HOLLY 10 DME/RADAR 2700; GRELL 15 DME/RADAR 2700
- MSA FROM ALO VORTAC 360-090 3200, 090-180 4000, 180-360 2500

VAR 6E YR 65

MINIMUMS

TAKEOFF: <input type="checkbox"/> STD <input checked="" type="checkbox"/> SEE FAA FORM 8260-15 FOR THIS AIRPORT		ALTERNATE: <input checked="" type="checkbox"/> NA													
CAT. →	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
Circling	1600	1	524	1600	1	524	1640	1-1/2	564	1640	2	564			

NOTES

Use Waterloo altimeter setting.
 DME or RADAR required. RADAR not available when Waterloo Tower not in operation.

CITY AND STATE	ELEVATION AIRPORT	TDZE	FACILITY IDENT.	PROC. NO.-AMDT. NO.-EFFECTIVE DATE	SUP.
Oelwein, IA	Oelwein Muni	1076 ---	ALO	1 JUN 89 VOR-A, Amdt 3	AMDT. 2 DATED 9 MAY 85

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Oelwein, IA	1076	---	ALO	1 JUN 89	AMDT. 2
	Oelwein Muni			VOR-A, Amdt 3	DATED 9 MAY 85

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VAR 6E YR 65

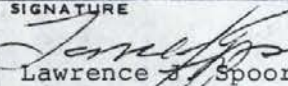

MINIMUMS

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CAT. →	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
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Oelwein, IA	1076	---	ALO	VOR-A, Amdt 3	AMDT. 2
	Oelwein Muni				DATED 9 MAY 85

ALL AFFECTED PROCEDURES REVIEWED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE Routine	
COORDINATED WITH				AVN-220, ACE-220, ZAU ARTCC, ALO ATCT, AMGR	
ATA <input type="checkbox"/>	ALPA <input type="checkbox"/>	APA <input type="checkbox"/>	AOPA <input type="checkbox"/>	NBAA <input type="checkbox"/>	OTHER (Specify) <input checked="" type="checkbox"/>
FLIGHT CHECKED BY					
NAME T. Cramutolo (Obst. check)				DATE 04/18/88	
DEVELOPED BY				BTL FIFO	
SIGNATURE 		DATE FEB. 14 1989		APPROVED BY	
Lawrence J. Spoor		BTL FIFO		SIGNATURE 	
				DATE FEB. 14 1989	
				MANAGER, BTL FIFO	
CHANGES					
<ol style="list-style-type: none"> 1. MDA's revised. 2. Arc transitions deleted. 					
REASONS					
<ol style="list-style-type: none"> 1. Obstruction evaluation. 2. Current policy. 					

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

Reports Identification Symbol
FS-8260-7

PART A - OBSTRUCTION DATA

1. APP. SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJ.	MIN. ALT.
Terminal	ALO VORTAC	HOLLY 10 DME/	1. Tower	422958/921550	1540(4D)	1000	AS	2700
Route		RADAR						
Intermediate	HOLLY 10 DME/	GRELL 15 DME/	2. Trees	424030/920530	1150(2C)	500	AS	2700
	RADAR	RADAR						
Final	GRELL 15 DME/	ALO R-062/20	3. Trees	424243/915857	1199(2C)	250	RA75-ALO	1540
	RADAR							
2. PROC. TURN	NA							
3. MISSED APPROACH	MAP: ALO R-062/20		NO 40:1 PENETRATIONS					
	ELEV: 1215							
4. CIRCLING AREA	DISTANCE	HT. ABV. APT.						
CATEGORY A	1.3 MI.	350	524	4. Power line	424148/915752	1157(4D)	300	AC50 RA75
CATEGORY B	1.5 MI.	450	524	5. Trees	424225/915748	1209(2C)	300	RA75
CATEGORY C	1.7 MI.	450	564	6. Wtr Twr	424033/915601	1196(4D)	300	AC50 RA75
CATEGORY D	2.3 MI.	550	564	6.		1196(4D)	300	AC50 RA75
CATEGORY E	4.5 MI.	550						
5. MINIMUM SAFE ALTITUDES								
SECTOR	OBSTRUCTION	BRG/DIST	ELEV. MSL	MSA	SECTOR	OBSTRUCTION	BRG/DIST	ELEV. MSL
360-090	Tower	067/24	2130	3200	180-270	Tower	167/7	1397
090-180	Tower	104/26	2980	4000	270-360	Tower	358/10	1410
CITY AND STATE	AIRPORT AND ELEVATION	1076	FACILITY		TYPE PROCEDURE AND AMENDMENT NO.		REGION	
Oelwein, IA	Oelwein Muni		ALO VORTAC		VOR-A, Amdt 3		ACE	

PART E - INSTRUMENT APPROACH PROCEDURE

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:		2. WEATHER SERVICE		3. ALTIMETER SETTING		
ALO ATCT ZAU ARTCC		ESSA OTHER		SOURCE		
		FAA		ALO		
		A/C		DISTANCE 20		
SATISFACTORY ON:		LOCATION		HRS REMOTE OPTN		
<input checked="" type="checkbox"/> VHF <input checked="" type="checkbox"/> UHF <input type="checkbox"/> HF		HRS OPTN		24		
		ADJUSTMENT 75				
4. MONITOR STATUS	PRIMARY			SECONDARY		
	NAVAID ALO VTAC			NAVAID ALO ASR		
	MONITOR POINT FOD FSS			MONITOR POINT		
	HRS	CAT. 1	24	HRS	CAT. 1	Part time
	OPTN	CAT. 3		OPTN	CAT. 3	
5. AIR SPACE		FLOOR CONTROLLED AIRSPACE UNDER FAC				
		CONT ZONE HRS OPTN				
		X				
		CONT AREA				
6. APPROACH & RUNWAY LIGHTING	ALS		X		REIL 13 (PCL)	
	(S) SALS				TDZ	
	MALS				C/LINE	
	HIRL				OTHER (Specify)	
	X MIRL 13/31 (PCL)					
7. RUNWAY MARKING			8. RUNWAY VISUAL RANGE			
ALL WEATHER			APPROACH			
INSTRUMENT			ROLL OUT			
9. GLIDE SLOPE INFO	GS ANGLE		ELEV RWY THRESHOLD			
	DIST THRESH TO GS ANT		ELEV GS ANTENNA			
			THRESHOLD XING HEIGHT			
10. FINAL APP COURSE AIMING POINT		X RWY 13/31 MIDPOINT		FT. FROM THRESHOLD		
		ON CENTER LINE		FT. FROM C/LINE		
11. WAIVERS OF STANDARDS		NUMBER OF WAIVERS ON FILE		DATES OF APPROVAL		

PART C - REMARKS

ALO 4000, ATC request.
Power Line east of airport, 120' AGL.

PART D - PREPARED BY

G. Chapman

TITLE
ASIP

DATE

11/30/88

OFFICE

BTL FIFO

CATEGORY	A	B	C	D
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