

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23**

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</u> SPENCER MUNI	<u>AIRPORT ID</u> KSPW	<u>PROCEDURE NAME</u> VOR RWY 30	<u>ORIGINAL/AMENDMENT</u> 3C	<u>CITY</u> SPENCER	<u>STATE</u> IA
<u>AIRPORT ELEVATION</u> 1339	<u>TDZE</u> 1338	<u>SUPERSEDED</u> VOR/DME RWY 30	<u>ORIGINAL/AMENDMENT</u> 3B	<u>DATED</u> 11/13/2014	<u>MAG VAR</u> 5E
<u>FACILITY</u> SPW	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1985

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>
SPW VOR/DME		ZUNMU/SPW 5.30 DME					111.94	5.30	3000

MISSED APPROACH

MAP:

SPW VOR/DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000, THEN LEFT TURN DIRECT SPW VOR/DME, THEN ON SPW VOR/DME R-112 TO ZUNMU/SPW 5.30 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT R **SIDE OF COURSE** 111.94 **OUTBOUND** 3000 **FT WITHIN** 10 **MILES OF** ZUNMU/SPW 5.30 DME (IAF)
- 2.
3. **FAC:** 291.94 **FAF:** ZUNMU/SPW 5.30 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 5.08
4. **MIN ALT:** ZUNMU/SPW 5.30 DME 3000
8. **MSA FROM:** SPW VOR/DME 3100

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART NOTE: VDP NA WHEN USING ESTHERVILLE ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ESTHERVILLE ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND INCREASE S-30 CAT C/D VISIBILITY 1/2 SM AND CIRCLING CAT C/D VISIBILITY 1/4 SM.



ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
ZUNMU TO RW30: 3.01/40.
CHART VDP AT 2.44 DME
DISTANCE VDP TO THLD 2.22 NM
CHART FAS OBST: 1764 TOWER 430647N/0950653W.
FAC CROSSES RWY C/L EXTENDED 3345 FT FROM THLD.
HOLD E, LT, 292.00 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, 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
S-30	2080	1	742	2080	1 1/4	742	2080	2	742	2080	2	742			
CIRCLING	2080	1	741	2080	1 1/4	741	2100	2 1/4	761	2100	2 1/2	761			

CHANGES - REASONS

1. REMOVED ARCS AND IAF FROM MILSS AND RITTA - SUPPORT VOR MON PROJECT.
2. ADDED CHART CIRCLING ICON - NEW CIRCLING RADII TO MATCH RNAV (GPS) RWY 30, AMDT 1B.
3. CHANGE PROCEDURE NAME FROM VOR/DME RWY 30 TO VOR RWY 30 - PER 8260.19H.
4. UPDATED VGSI NON-COINCIDENT NOTE - PER 8260.19H.
5. ADDED EQUIPMENT REQUIREMENT NOTE: DME REQUIRED - PER 8260.19H.
6. DELETED CHART TDZE 1338 FROM ADDITIONAL FLIGHT DATA - TDZE 1338 CHARTED ON PREVIOUS AMENDMENT.
7. RAISED CIRCLING CAT C/D MDA/HAA FROM 2080/741 TO 2100/761 - NEW CIRCLING RADII TO MATCH RNAV (GPS) RWY 30, AMDT 1B.
8. CHANGED ALTIMETER ADJUSTMENT NOTE FROM: "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ESTHERVILLE ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET, INCREASE S-30 CAT C/D VISIBILITY 1/2 MILE", TO : "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ESTHERVILLE ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND INCREASE S-30 CAT C/D VISIBILITY 1/2 SM AND CIRCLING CAT C/D VISIBILITY 1/4 SM."
9. CHANGED MSA FROM 3200 TO 3100 - TO MATCH PUBLISHED MSA.
10. DELETED INTERMEDIATE SEGMENT - NO LONGER REQUIRED WITH ARCS REMOVED.

01/16/2019: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON: 11/29/2018:

1. CHANGED FAF ON 8260-5 FROM SPW VOR/DME TO ZUNMU/SPW 5.30 DME.

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZMP, AMGR, ATA

FLIGHT CHECKED BY

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.

DEVELOPED BY

WARDELL HENNING (THERON CYRUS)

APPROVED BY

WARDELL HENNING

Digitally signed by
WARDELL HENNING
Jan 22, 2019

Digitally signed by
WARDELL HENNING

Jan 22, 2019

OFFICE
Digitally signed by
WARDELL HENNING
Jan 22, 2019

OFFICE
AJV-5430

OFFICE
AJV-5430

DATE

DATE
10/11/2018

DATE

TITLE
MANAGER

QUALITY
41
CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT</u> SPENCER MUNI	<u>AIRPORT ID</u> KSPW	<u>PROCEDURE NAME</u> VOR RWY 30	<u>AMDT NO.</u> 3C	<u>CITY</u> SPENCER	<u>STATE</u> IA	<u>AIRPORT ELEVATION</u> 1339	<u>FACILITY</u> SPW
--------------------------------	---------------------------	-------------------------------------	-----------------------	------------------------	--------------------	----------------------------------	------------------------

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

<u>FROM</u> SPW VOR/DME	<u>TO</u> ZUNMU/SPW 5.30 DME
----------------------------	---------------------------------

<u>RNP</u>	<u>DISTANCE</u> 5.30	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
------------	-------------------------	------------	------------	------------	-------------

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.TOWER (19-000285)	431037.00N/0950759.00W	1735	20	50	1C	1000				AT265	3000
2.TERRAIN	430657.00N/0950703.00W	1439 (1400)								AS1500	2900

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
------------	-------------	-------------	------------	-------------	-----------	-----------	------------	----------------------	-------------	----------------	-------------------------------

SEGMENT
REMARKS:

FINAL

<u>FROM</u> ZUNMU/SPW 5.30 DME	<u>TO</u> SPW VOR/DME
-----------------------------------	--------------------------

<u>RNP</u>	<u>DISTANCE</u> 5.30	<u>PAT</u>	<u>MAP</u> SPW VOR/DME	<u>HAT</u> 742	<u>HMAS</u>
------------	-------------------------	------------	---------------------------	-------------------	-------------

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.TOWER (19-001739)	430647.00N/0950653.00W	1764	250	50	4D	250				AC50	2080

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
------------	-------------	-------------	------------	-------------	-----------	-----------	------------	----------------------	-------------	----------------	-------------------------------

SEGMENT
REMARKS:

QUALITY
41
CHECKED

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
11	11	11	11	11	11
12	12	12	12	12	12
13	13	13	13	13	13
14	14	14	14	14	14
15	15	15	15	15	15
16	16	16	16	16	16
17	17	17	17	17	17
18	18	18	18	18	18
19	19	19	19	19	19
20	20	20	20	20	20
21	21	21	21	21	21
22	22	22	22	22	22
23	23	23	23	23	23
24	24	24	24	24	24
25	25	25	25	25	25
26	26	26	26	26	26
27	27	27	27	27	27
28	28	28	28	28	28
29	29	29	29	29	29
30	30	30	30	30	30
31	31	31	31	31	31
32	32	32	32	32	32
33	33	33	33	33	33
34	34	34	34	34	34
35	35	35	35	35	35
36	36	36	36	36	36
37	37	37	37	37	37
38	38	38	38	38	38
39	39	39	39	39	39
40	40	40	40	40	40
41	41	41	41	41	41
42	42	42	42	42	42
43	43	43	43	43	43
44	44	44	44	44	44
45	45	45	45	45	45
46	46	46	46	46	46
47	47	47	47	47	47
48	48	48	48	48	48
49	49	49	49	49	49
50	50	50	50	50	50
51	51	51	51	51	51
52	52	52	52	52	52
53	53	53	53	53	53
54	54	54	54	54	54
55	55	55	55	55	55
56	56	56	56	56	56
57	57	57	57	57	57
58	58	58	58	58	58
59	59	59	59	59	59
60	60	60	60	60	60
61	61	61	61	61	61
62	62	62	62	62	62
63	63	63	63	63	63
64	64	64	64	64	64
65	65	65	65	65	65
66	66	66	66	66	66
67	67	67	67	67	67
68	68	68	68	68	68
69	69	69	69	69	69
70	70	70	70	70	70
71	71	71	71	71	71
72	72	72	72	72	72
73	73	73	73	73	73
74	74	74	74	74	

<u>COMPUTATIONS</u>												
	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

<u>FROM</u>	<u>TO</u>
SPW VOR/DME	ZUNMU/SPW 5.30 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
					1830

COMPUTATIONS											
ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:



CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
8.TANK (19-026764)	430912.20N/0951359.73W	1.31	741	1435	20	10	1B	300		SI	2080
CATEGORY B											
9.TOWER (19-000238)	430939.00N/0950915.00W	1.85	741	1467	18228	1500	4D	300		SI	2080
CATEGORY C											
10.TOWER (19-000285)	431036.79N/0950758.62W	2.92	761	1735	20	50	1D	300		AC50	2100
CATEGORY D											
10.TOWER (19-000285)	431036.79N/0950758.62W	3.81	761	1735	20	50	1D	300		AC50	2100

CIRCLING REMARKS:

MSA

CENTER	RADIUS
SPW VOR/DME	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (19-000594)	432412.00N/0954006.91W	300	25.1	2084	50	20	2C	1000			3100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMP ARTCC, FOD FSS

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	KSPW	24	KSPW	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	KEST	24	KEST	24.706	Y	60

WX REMARKS:
RASS PRESSURE PATTERNS SAME
KSPW 1339 MSL, KEST 1319 MSL
RA=59.6

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
SPW VOR/DME	MOCC	24	1

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW30 - MIRL (PCL), REIL (PCL), VASI-2L (PCL)	NPI-F	
RW18 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)	NPI-G	
RW36 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)	NPI-G	
RW12 - MALSR (PCL), MIRL (PCL), VASI-4L (PCL)	PIR-F	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
					3.00	33.7

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input type="checkbox"/>	3345	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	500
ON CENTERLINE	<input checked="" type="checkbox"/>		FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
---------------------	----------------------	------------	----------------

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
SPENCER MUNI	KSPW	VOR RWY 30	3C	SPENCER	IA	1339	SPW

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
VEGETATION HEIGHT 100 FEET PER FPT.
ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.08
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.33
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	296.94
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1431
DISTANCE FROM	THLD	TO 1500FT POINT	4.88
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.51
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	296.94
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1431

THRESHOLD
COORDINATES
(IF STR-IN)430942.48N/0951143.94W

ARP COORDINATES430956.30N/0951210.10W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 12 DISTANCE 0.51 NM

FAF
COORDINATES430719.45N/0950536.12W

FIX NAME
COORDINATES

REMARKS

THLD DISPLACED 500FT, ACTUAL COORDINATES: 430939.56N/0951138.49W.



FACILITY
SPW

AERONAUTICAL INFORMATION SPECIALIST